

TM 12-427

WAR DEPARTMENT TECHNICAL MANUAL

MILITARY OCCUPATIONAL
CLASSIFICATION OF
ENLISTED PERSONNEL

WAR DEPARTMENT • 12 JULY 1944

This manual together with TM 12-426 (when published) supersedes AR 615-26, 15 September 1942, including C 1, 30 January 1943 and C 2, 22 April 1943; Memorandum W615-29-43, 11 March 1943; Memorandum W615-40-43, 11 April 1943; Memorandum W615-45-43, 13 May 1943; Memorandum W615-60-43, 17 July 1943; Memorandum W615-63-43, 24 August 1943; Memorandum W615-65-43, 26 August 1943; W615-44, 22 March 1944; AG letter 201.6 (18 Oct 43) OC-A-EZ-MB-A, 1 November 1943; section I, Circular No. 43, War Department, 1943; and paragraph 3, Circular No. 141, War Department, 1944.

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WASHINGTON 25, D. C., 12 July 1944.

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FOREWORD

This manual contains specification serial numbers, titles, and specifications for all enlisted personnel military occupational specialties currently classified.

Section I

Introduction to Military Occupational Classification of Enlisted Personnel

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1. PURPOSE.

This manual provides a means of classifying enlisted military occupational specialists. In addition to this manual, classification and assignment material appearing herein and affecting the AAF has been extracted and published in AAF Manual 35-1, Military Personnel Classification and Duty Assignment. Reference to that manual should be made in connection with Army Air Forces classification and assignment procedures. Proper classification of enlisted men will facilitate the—

a. Conservation of available skills through maximum utilization of physical capacity, leadership qualities, experience, education, training, skills, and aptitudes.

b. Construction and development of Tables of Organization and other personnel manning tables with respect to the kinds of military occupational specialists needed by a unit to perform its mission.

c. Requisition and assignment of enlisted men qualified to meet the requirements of a military assignment.

d. Selection of enlisted personnel for retraining or vocational rehabilitation in preparation for continuation of service in the Army or for return to gainful civilian employment.

e. Separation of individuals from military service and rational demobilization to achieve fullest utilization of military occupational training and experience upon return to civilian life.

2. DEFINITION OF A MILITARY OCCUPATIONAL SPECIALTY (MOS).

a. In determining an MOS the general principle followed throughout is that duty assignments which basically involve the same kind of training, experience, techniques, abilities, and the same relative degree of physical capacity on the part of a soldier are classified together under a broad MOS. A duty assignment which is so specialized as to prevent grouping is recognized as an individual MOS. Examples, the job description of a Clerk-Typist (SSN 405) represents a broad classification and such duty assignments as Company Clerk, Typist, and Chaplain's Assistant fall within the area of skills which the MOS of Clerk-Typist represents. However, the job description of an Orthopedic Mechanic (SSN 366) represents a specialized duty assignment not susceptible to grouping and is an MOS in itself.

b. An MOS, therefore, is the term used to identify an Army job which comprises one or more related duties and responsibilities normally requiring special knowledge and skills acquired through civilian training and experience supplemented by military training and experience, or military training and experience only.

c. The specification serial number (SSN) is a numerical code assigned to an MOS for control, reporting, and requisitioning purposes.

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3. RELATIONSHIP OF AN MOS TO TABLES OF ORGANIZATION.

Tables of Organization and Equipment and other Tables of Distribution may list any of the duty titles common to an MOS. Example, such duty assignments as Company Clerk, Typist, and Chaplain's Assistant can be performed by one qualified in the MOS of Clerk-Typist (SSN 405). Any or all of the above titles may appear in Tables of Organization. In each case, however, the SSN listed would be 405 since this is the numerical code which controls the authorized duty titles representing assignments which fall within the area of skills represented by the MOS of Clerk-Typist.

4. RELATIONSHIP OF A MILITARY OCCUPATIONAL SPECIALTY TO THE ARMS AND SERVICES.

a. In many cases the same MOS is required by more than one arm or service and it is customary for the arms and services involved to train and develop the required specialist, through school or unit training or both, usually for assignment within their respective organizations. The same training, techniques, and abilities and the same kind of work are required of the specialist, basically, regardless of the arm or service in which he is developed. However, because of differences in equipment, tactics, operations, physical capacities, etc., which exist in the various arms and services, it is indicated that an MOS should always be associated with the arm or service which developed it. In other words, the identity of the arm or service which develops an MOS is an integral part of that MOS and should be recognized as such.

b. The above factors should be considered in all placement and replacement matters. For example, a Field Artillery trained Tank Mechanic, Minor Maintenance (SSN 660) should be assigned to a Field Artillery unit whereas an Armored Command trained Tank Mechanic, Minor Maintenance should be assigned to an Armored unit. However, where exigencies of the situation make this impracticable every attempt will be made to assign specialists to closely allied assignments in the order of their relationship to one another. Example, where a Field Artillery trained Tank Mechanic, Minor Maintenance (SSN 660) is required and is not available, the same kind of specialist who is either Tank Destroyer or Armored Command trained should be assigned because the same kind of work is required of these specialists, basically. The differences which exist as to type of equipment, tactics, etc., of an organization can be absorbed by the specialist. Sections II and IV of this manual should be studied

in connection with further determinations of this nature.

5. DETERMINATION OF SOLDIER'S MILITARY OCCUPATIONAL SPECIALTY (MOS).

a. An MOS will be assigned an enlisted man only as follows:

- (1) Through the successful completion of a course of training at a training center or service school, if it has been determined by proper authority that the course qualifies a graduate in a specialty. Determination by proper authority shall include clearance of military training programs with The Adjutant General's office (Classification and Replacement Branch) for determination of the appropriate MOS to be assigned to graduates of various courses.
- (2) Through satisfactory performance of the duties and responsibilities of a military occupational specialty in a unit or installation for a period of 60 days.
- (3) Through civilian experience, when of such nature as to be a practical counterpart of an MOS and when proficiency has been demonstrated to the satisfaction of his commanding officer.

b. Any soldier not qualifying in an MOS in accordance with the above shall be classified as Basic (SSN 521) until such time as he qualifies for an appropriate MOS.

6. RECORDING MOS ON SOLDIER'S QUALIFICATION CARD, W.D., A.G.O. FORM NO. 20.

The MOS and SSN of the soldier will be recorded under the item "Classification in Military Specialties," on the Soldier's Qualification Card, W.D., A.G.O. Form No. 20. The item, "Record of Current Service," in the column marked "Principal Duty" will always show the authorized duty title and SSN which represents the current duty assignment of the soldier. Entries in the "Principal Duty" column are subject to change as the soldier is given different duty assignments which fall within the area of skills represented by his MOS.

Example: In the case of the MOS of Clerk-Typist (SSN 405), the item "Classification in Military Specialties" will list Clerk-Typist—405. If the soldier's principal duty assignment is Clerk-Typist the same entry will be recorded in the "Principal Duty" column, thus, Clerk-Typist—405. In the event the soldier is subsequently assigned the duty of Chaplain's Assistant, such additional entry will be recorded in the "Principal Duty" column, thus, Chaplain's Assistant—405. In this case, the item "Classi-

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fication in Military Specialties" will remain posted as Clerk-Typist (SSN 405) since the duty assignment of Chaplain's Assistant falls within the area of skills represented by the MOS of Clerk-Typist.

7. QUALIFICATION IN AN MOS.

Accurate classification of each soldier in an appropriate MOS is of utmost importance. No soldier should be classified in an MOS unless he is able to perform satisfactorily the duties and responsibilities required by the job in accordance with the standards set out below and qualification in an MOS will be accomplished as follows:

a. "Skilled" if the enlisted man has demonstrated that, given the tools and equipment of his occupation he can perform all of his duties under sustained field, combat, or operating conditions without supervision beyond that inherent in the job itself.

b. "Semiskilled," if he can perform his duties under similar conditions but requires supervision.

c. "Potential" if he has sufficient familiarity with his tools and equipment and has such aptitudes and physical qualities as clearly warrants the assumption that he will become qualified as semiskilled or skilled with additional training and experience. Such men should be able to perform the various elements of the job under close supervision.

8. SELECTION OF MAIN AND SECONDARY MOS.

a. Enlisted men may acquire sufficient knowledge and skills to warrant classification in more than one military occupational specialty. In order to provide for the maximum utilization of a soldier's qualifications the following factors should be considered in the selection of the main and secondary specialty, when it is desired to make a differentiation:

- (1) Quality of performance.
- (2) Length of experience or training.
- (3) Recency of experience or training.
- (4) Needs of the service, especially in scarce categories of required skills.

b. An enlisted man may acquire a new MOS in accordance with paragraph 5a (1), (2) or (3). Until a new MOS is determined he shall be classified under his present Military Occupational Specialty, except in cases where he is not qualified to perform the duties and responsibilities thereof. In such cases he will be classified in accordance with paragraph 5b.

9. ORGANIZATION AND INTERPRETATION OF JOB SPECIFICATIONS.

a. **Basis for job specification.** The specifications contained in this manual are based upon an

analysis of military duties performed by enlisted personnel, male and female. Material used in their preparation was obtained from tables of organization and current Army publications supplemented by field investigations of Army units in which the specialties were found.

b. **Organization of a Job Specification.** Each job specification contained in this manual is composed of several or all of the following elements:

- (1) A descriptive title consistent with other titles and a specification serial number.
- (2) Alternate titles. Where a military occupational specialty is known by another title established by common practice or usage, and where the type of training and experience available to an enlisted man qualifies him to perform more than one set of duties included under the MOS, titles alternate to the main titles are indicated, and the same SSN assigned.
- (3) A statement of predominant duties and responsibilities including typical tasks falling within the occupational specialty. The general principle followed throughout is that jobs which require the same kind of training and experience usually available to enlisted men have been classified together under the one military occupational specialty.
- (4) A statement of special qualifications indicating knowledge and skills required for adequate performance of the specialty.
- (5) Suggested substitutes indicative of related military occupational specialties from which personnel may be drawn in emergencies which will permit assignment with the least training and preparation.
- (6) It will be noted that the job specifications ordinarily make no mention of the education and experience, military or civilian, required. However, it should be understood that all military occupational specialties are acquired through some form of Army service school training supplemented by on the job training or through on the job training only.

c. **Interpretation of Job Specifications.**

- (1) The job specifications are intended as an aid and guide in assisting classification officers in the determination of an appropriate code designation for a given set of duties and responsibilities, and uniformly to interpret and implement the regulations pertaining to personnel classification and reporting. They do not restrict authority of commanding officers to change or prescribe additional duties and responsibilities of subordinates. The objective has been to develop clear, usable, and manageable specifications rather than make each

one an indivisible unit. Differences in duties which do not affect seriously their treatment as a unit in classification and assignment work have been disregarded. The specifications are not detailed and complete statements of the duties and responsibilities of a specific duty assignment but describe typical tasks normally associated with the functional specialty.

- (2) The classification of occupational specialties does not produce a system whereby every duty assignment can be found through a routine process of following an index. Sound judgment is required in applying the mechanical details of this classification structure. Consideration is not to be given to isolated phrases or sentences apart from their context.
- (3) Authorized alternate titles as indicated in the job specification may be used on T/O's and manning tables to designate type of duty performed.

10. USE OF ALTERNATE OR COMMON JOB TITLES.

The proper construction and development of Tables of Organization, common usage in the field, the type of training and experience available to the soldier in the field, and tradition of an arm or service may indicate a title other than the official or main title of an MOS. Provision for such variation in title is arranged for as follows:

a. Wherever an MOS represents that type of specialty which qualifies a specialist to perform one or more duties and responsibilities falling within the area of skills represented by the MOS, job titles alternate to the main title are shown to indicate the most probable duties to which a specialist may be assigned. Examples of this are the use of such titles as Company Clerk, Battery Clerk, Headquarters Clerk, Chaplain's Assistant, or Typist with the MOS of Clerk-Typist (SSN 405), and, in an Antitank unit, Cannoneer, Gunner, Driver, Radio Tender, or Antitank NCO with the MOS of Antitank Gun Crewman (SSN 610).

b. The general principle followed in considering common titles which are used throughout the Army to indicate the supervisory nature of the duty assignment has been to determine whether or not a soldier on a supervisory level is responsible for the supervision of a composite group of specialists on the operational level.

- (1) In those cases where a soldier on a supervisory level requires no more basic knowledge than that of his military occupational specialty, plus his established leadership and other personal qualifications, his supervisory status is

established by the enlisted grade to which he is promoted. His MOS remains the same.

Example: An Antitank Gun Crewman (SSN 610) who, because of evidenced leadership and other personal supervisory qualifications, is promoted to the position of Antitank Non-commissioned Officer. In this case, the MOS Antitank Gun Crewman (SSN 610) is not changed excepting that the alternate title of Antitank NCO (SSN 610) should be used and accordingly posted in the item, "Record of Current Service" in the "Principal Duty" column of the Soldier's Qualification Card, W.D., A.G.O. Form No. 20. The enlisted grade to which the soldier is promoted in this case establishes the supervisory nature of his assignment.

- (2) In those cases where a soldier on a supervisory level is responsible for supervising a composite group of specialties on the operational level and who, in order properly to supervise the group, must have a thorough knowledge of the various kinds of military occupational specialists over which he has supervision, the enlisted grade to which he is promoted is not considered an adequate classification. By virtue of the knowledge the soldier develops of more than one MOS he automatically acquires a new MOS in this type of case. Example, the MOS of Administrative NCO (SSN 502) represents the kind of supervisory specialist who must be thoroughly familiar with more than one MOS on the operational level and such a specialist does not logically develop from only one MOS as in the case of the Antitank NCO.

c. Other common titles which are used throughout the Army to indicate the supervisory nature of the duty assignment may also be used as alternate titles. Examples of this are Sergeant Major, First Sergeant, Platoon Sergeant, Chief of Section, Section Leader, and Squad Leader. However, the SSN used in each case will be that SSN which represents the MOS of the Sergeant Major, First Sergeant, Platoon Sergeant, etc.

Examples: A Platoon Sergeant of a Rifle Company should be shown as Platoon Sergeant, SSN 745, if he is assigned to a Rifle Platoon or 1812 if assigned to an Infantry Platoon employing 60-mm mortars and light machine guns; a Platoon Sergeant of an Antitank Company should be shown as Platoon Sergeant SSN 610; a First Sergeant whose duties require that he be an administrative specialist should be shown as First Sergeant, SSN 502; and a First Sergeant whose duties require a tactical specialist should be shown with the SSN covering his tactical specialty. For example, the First Ser-

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geant of an Infantry Rifle Company should be shown as First Sergeant, SSN 1812. The First Sergeant of a Tank Destroyer Company (Firing) should be shown as First Sergeant, SSN 610.

11. SPECIFICATION SERIAL NUMBER (SSN) DELETIONS AND CHANGES.

a. General. Appendix I contains a listing of specification serial numbers (SSN) appearing in AR 615-26 and its supplements which—

- (1) Have been deleted from this manual or
- (2) Have been retained in this manual because they are required in certain Tables of Organization but are convertible to more appropriate SSN's in other Tables of Organization.

b. Appendix I, Table I. This table numerically lists all specification serial numbers (SSN) falling within the scope outlined in a(1) and (2) above, as follows:

- (1) Where a deleted SSN is convertible to only one SSN, the SSN to which it is convertible is included in this table.
- (2) Where an SSN has been deleted and is convertible to more than one SSN or has been retained but falls within the scope outlined in a(2) above, reference is made to and conversion is listed in appendix I, table II, excepting where otherwise indicated.

c. Appendix I, Table II. This table contains a list of Tables of Organization by Arm and Service, by T/O number, showing the SSN's deleted or changed, together with the appropriate SSN's to be used in the respective T/O's.

Example: Platoon Sergeant (SSN 651) has been deleted by SSN only. Where this SSN (651) appears in appendix I, table I, there is included a reference as follows: "See Appendix I, Table II." Before reference is made to table II first determine the particular T/O involved, then turn to the appropriate arm or service in table II and locate the appropriate T/O number listed therein. The proper SSN to be used will be listed by T/O line and column number. If the pertinent T/O is not listed in table II, no correction is necessary as the T/O is correct. Table II does not include classified T/O's. Corrections involving classified T/O's will be processed by other methods as will be prescribed from time to time.

12. USE OF ALPHABETICAL INDEX.

a. The index (section V) contains a complete cross-index of the military occupational specialties included in this manual. It contains—

- (1) **Principal Titles.** These are descriptive titles listed in capital letters and are the exact designations found in sections III and IV.

They are the only titles which will be used in completing the item "Classification in Military Specialties" on the Soldier's Qualification Card, W.D., A.G.O. Form No. 20, and other allied reports and forms, such as requisitions, service records, and orders.

- (2) **Alternate Titles.** These are descriptive titles listed in lower case letters with initial capitals. These titles are authorized duty titles which represent duty assignments which fall within the area of skills represented by the military occupational specialties (principal titles) to which they refer. Their formal use is authorized only in Tables of Organization and in completion of the item "Record of Current Service" on the Soldier's Qualification Card, W.D., A.G.O. Form No. 20.

- (3) **Cross-index Titles.** The cross-index titles, also listed in lower case letters with initial capitals, are rearrangements of principal and alternate titles and provide for easy location of military occupational specialties when the exact principal or alternate titles are not known.

b. A title cannot be completely descriptive of a specialty. It is important, therefore, that reference be made to the content of the specification before a specification serial number and title are selected.

13. DEVELOPMENT OF FUNCTIONAL FIELDS.

Section II gives a grouping of military specialists within ten broad functional fields. The purpose of this section is to indicate the functional fields and the appropriate specialists therein in order to assure using, requisitioning, or assigning occupational specialists for purposes in agreement with the skills and knowledges of a particular MOS.

14. USE OF THIS TECHNICAL MANUAL.

a. General. The use of this Technical Manual by the Army will be, in general, to accomplish the purpose stated in paragraph 1. Specific applications will vary in accordance with the missions of the using units or organizations, and such War Department publications as may direct changes or modifications.

b. Reception Centers. The civilian occupations of enlisted men will be classified in accordance with TM 12-426. The recommended military assignment made on the W.D., A.G.O. Form No. 20 Card by reception centers will be based on—

- (1) A sound evaluation of such factors as physical capacity, leadership, experience, education,

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skills (hobby or occupational), test scores, and aptitudes which indicate probable successful performance of a military occupational specialty.

- (2) The needs of the Army for certain military occupational specialists as shown by such War Department publications as Requirement and Replacement Rates, lists of critical shortages, and other similar publications.
- (3) The types and kinds of training programs available to enlisted men within replacement training centers, service schools or units.
- (4) Reception centers will not recommend a military occupational specialty on a supervisory level. If a soldier possesses the potentialities of a military occupational specialty on the supervisory level he should be recommended for a military occupational specialty on the operational level. In filling blanket requisitions for units, the rate for military occupational specialties on the supervisory level (when shown) should be added to that of the military occupational specialties on the appropriate operational level.

c. Training Centers and Service Schools.

The use of this Technical Manual by Training Centers and Service Schools will include:

- (1) Re-evaluation of the qualifications of enlisted men for the purpose of assigning each soldier to that type of training which he can most readily absorb and thereby be of the greatest value to the service. Consideration should be given to the physical capacity, leadership qualities, and intelligence incident to the MOS for which the particular course is intended to train and the SSN under which the enlisted man will be reported as available for assignment. (See par. 5a(1).)
- (2) Enlisted men upon successful completion of a course will be properly classified with an MOS in accordance with paragraph 5a(1) and such War Department publications as Circular No. 283, War Department, 1943, "Enlisted Men—Requisitions for Replacements Trained by Army Ground Forces," as amended by section III, Circular No. 331, War Department, 1943, and Circular No. 189, War Department, 1944, "Requisitions for Replacements of Enlisted Men Trained by Army Service Forces," or similar publications. This entry shall be made on the Form No. 20 Card under the item "Classification in Military Specialties" by showing the official title of the MOS under the heading "Designation" and the SSN under the heading "Specification Serial Number." The degree of proficiency under "poten-

tial," "semiskilled" or "skilled" will be shown by the initials "RTC" for replacement training center and "SS" for service school in the appropriate space.

d. Field Units. Divisions and separate units will make use of this manual properly to assign replacements to duties commensurate with their qualifications as indicated either by the recommended military assignment by reception centers or the designated MOS of men received from replacement training centers, service schools or other units. Men received from reception centers will acquire an MOS in a unit in accordance with paragraph 5a(2) or (3). Enlisted men given a qualified MOS from a replacement training center or service school as indicated by the initials RTC or SS under the item "Classification in Military Specialties" will be given an MOS as soon as they demonstrate satisfactory performance of the duties and responsibilities of such MOS. Such notation will be made in the item "Classification in Military Specialties" of the card by crossing out the initials RTC or SS and adding the new date. These notations will be initialled by the responsible officer. Classification officers and unit personnel officers in divisions and separate units will assign military occupational specialties to enlisted men only in accordance with paragraphs 2 and 5.

e. Replacement Depots and Personnel Replacement and Reassignment Centers. Replacement depots and personnel replacement and reassignment centers will make full use of this manual—

- (1) To determine that the enlisted man has been properly classified in an MOS in accordance with paragraphs 2 and 5.
- (2) To assign such men out as replacements only on requisitions for such specialists.
- (3) Where exigencies of the situation make it impracticable to assign men in accordance with their specialties, every attempt will be made to assign specialists to closely allied assignments which can be determined by a study of sections II and IV of this manual. Most descriptions list appropriate substitute military occupational specialties, and substitute assignments should be based on these suggestions wherever possible.

f. Tables of Organization and Tables of Organization and Equipment. Tables of Organization and other personnel manning tables should indicate the kinds of military occupational specialists needed by the T/O unit to perform its mission. Appropriate use of alternate titles will indicate the probable use or duty assignment of such specialists within T/O's. Section II has been constructed to

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clarify the types and kinds of military occupational specialists in accordance with the mission they will be required to perform.

15. SUGGESTED CHANGES, CORRECTIONS, REVISIONS, AND DELETIONS OF MILITARY OCCUPATIONAL SPECIALTIES.

a. In order to maintain this manual, additions, changes, corrections, revisions, and deletions will be required from time to time. The cooperation of classification, requirement, and training officers is essential in keeping subject matter in this manual current with new developments. In order to insure careful consideration of changes, the following procedure will be followed:

- (1) Before formally requesting the inclusion of a new military occupational specialty in this manual, the principle outlined in paragraphs 2a and b will be carefully studied.
- (2) After such study, a review of the military occupational specialties in this manual will, in many instances, indicate one or more specialties which adequately represent the kind of specialist required. Where this is the case a new MOS should not be requested. Rather, the MOS most closely representing the kind of specialist required should be selected and a review made of the main and alternate titles, if any, of the MOS. If an appropriate title is indicated no further action on request is necessary and the MOS should be used by selected title and the SSN governing the MOS.
- (3) However, where the MOS adequately represents the kind of specialist required, but no appropriate title is indicated, a request to The Adjutant General, Classification and Replacement Branch, Washington 25, D. C., through channels, should be made stating the suggested alternate title required and the MOS and SSN to which it is considered alternate.
- (4) From time to time military occupational specialties become obsolete for various reasons and, therefore, should be deleted from the manual. Once it has been determined that an MOS is no longer necessary notification through the channels outlined in part 3 of this paragraph should be accomplished.
- (5) In those cases where the procedure outlined in (1) and (2) above does not provide a solution to the situation a request for change should be prepared in the following manner:

To: The Adjutant General, Classification and Replacement Branch, Washington 25, D. C. (Through Channels)

Subject: Suggested Changes in Military Occupational Specialties (TM 12-427).

Enlisted Man's Military Occupational Specialty

1. Title.
2. Arm or service.
3. Indicate T/O number and title or manning table, and state briefly mission of unit.
4. Type of supervision governing specialty:
 - a. Commissioned Officer (Title and Code Number in accordance with TM 12-406 or 407).
 - b. Noncommissioned Officer (Title and SSN in accordance with this manual).
5. Supervisory responsibilities of specialty:
 - a. Over other noncommissioned officers (give Title and SSN).
 - b. Over nongraded enlisted men (give Title and SSN).
6. Job Analysis of Military Occupational Specialty showing—
 - a. Duties performed (state in detail, explaining specifically what, how, when, and why, and the tactics, weapons, tools, equipment, and materiel involved).
 - b. Job knowledge and skill required (state in detail the techniques, abilities, dexterity, accuracy, (speed, tolerances) special training, and other characteristics required).
 - c. Training required. Indicate whether obtained by RTC or school training, unit training or both. Indicate whether this specialist is trained specifically as an individual military specialty.
 - d. Responsibility involved, supervisory and non-supervisory:
 - (1) Indicate number of workers and type of work supervised together with the nature and extent of supervision given.
 - (2) Under nonsupervisory responsibilities show the nature and extent of cooperation required and indicate possible damage or loss either to enlisted men or of materiel.
 - e. Relations to other military occupational specialties:
 - (1) List other military occupational specialists with whom this specialist works in a section or unit in order to perform the mission of the organizational unit.
 - (2) Indicate the military occupational specialties from which this specialty is usually developed and into which specialties one may be promoted, and state substantial differences in skills, experience, training, etc.

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7. Physical Requirements (indicate physical characteristics necessary to successful performance of this MOS. State in detail unusual physical requirements or to what extent less physically qualified personnel could perform duties involved).

16. CODING OF PARACHUTISTS, HORSEMEN, AND INSTRUCTORS.

a. **Parachutists and Horsemen.** The terms "Parachutist" and "Horseman" do not represent military occupational specialties. Rather, they represent additional qualifications required of paratroopers and horsemen whose military occupational specialties vary in accordance with the kinds of MOS's required to man Tables of Organization calling for the additional qualifications of parachuting and horsemanship. However, in order adequately to control the requisitioning of and otherwise to indicate the parachute or horseman qualifications the digit 7 will prefix the basic specification serial number of Paratroopers in all cases and the digit 9 will prefix the basic specification serial number of Horsemen.

Examples: To identify a Rifleman (SSN 745) who is additionally qualified as a Paratrooper the basic SSN will be prefixed thus, 7745. To identify a Rifleman (SSN 745) who is additionally qualified as a Horseman the basic SSN will be prefixed thus, 9745.

b. **Instructors.** It is not feasible to develop job specifications for the many instructional duties performed by enlisted personnel. A careful analysis of instructor specialties has shown that the field of instruction, both in kind and scope, usually parallels the functional performance of a military occupational specialty and, hence, can be represented by the same SSN.

Example: The skills and knowledge represented by a Rifleman (SSN 745) and an instructor in the same field are sufficiently alike, except for personality and other factors not classifiable herein, to permit classification by the same SSN. For recording purposes the word "Instructor" will be

entered in parenthesis in the items "Classification in Military Specialties" and "Present Duty" together with the military occupational specialty title. However, in the rare cases where personnel are permanently assigned to instructional duty, and are not qualified in a military occupational specialty related to the course of instruction, the use of Technical Instructor (SSN 659) is authorized if the instructor is highly skilled or Basic (SSN 521) if the instructor has no military occupational specialty.

17. ABBREVIATIONS USED IN THIS MANUAL.

AA.....	Antiaircraft
AAA.....	Antiaircraft Artillery
AACS.....	
..	Army Airways Communications System
AAF.....	Army Air Forces
AGD.....	Adjutant General's Department
Armd Cmd.....	Armored Command
CAC.....	Coast Artillery Corps
Cav.....	Cavalry
CE.....	Corps of Engineers
CMP.....	Corps of Military Police
CNS.....	Control Net System
COS.....	Civilian Occupational Specialist
DO.....	Depot Overhaul
FA.....	Field Artillery
FD.....	Finance Department
Inf.....	Infantry
MCO.....	Main Civilian Occupation
MD.....	Medical Department
MOS.....	Military Occupational Specialty
NCO.....	Noncommissioned Officer
Ord Dept.....	Ordnance Department
PMG.....	Provost Marshal General
QMC.....	Quartermaster Corps
Sig C.....	Signal Corps
SP.....	Self-propelled
SSN.....	Specification Serial Number
TC.....	Transportation Corps
TD.....	Tank Destroyer
VHF.....	Very High Frequency
VLA.....	Very Low Altitude

Section II

Functional Grouping of Military Occupational Specialties

To facilitate the allocation and location of appropriate MOS's in this manual, the military occupational specialties have been grouped under ten broad functional fields which, in turn, have been subdivided into subgroups of related occupations. No single criterion has been followed in assigning a job to a particular grouping. Generally, the functional relationship among the specialties has been

the determining factor in their grouping. In some cases, consideration has been given to other factors such as the qualification requirements, T/O needs, and the mission to be performed, necessitating a departure, in such instances, from the functional arrangement. Where this has been necessary, however, such grouping should prove of greater benefit to the user. The ten groupings are as follows:

1. *Gunnery and Gunnery Control.*

a. Light and Heavy Weapons (including organizational maintenance).

- 511 Armorer.
- 604 Light Machine Gunner.
- 605 Heavy Machine Gunner.
- 607 Light Mortar Crewman.
- 745 Rifleman.
- 746 Automatic Rifleman.
- 812 Heavy Weapons NCO.
- 1607 Heavy Mortar Crewman.
- 1812 Light Weapons NCO.

b. Field and Coast Artillery (including organizational maintenance).

- 571 Electrician, Harbor Defense.
- 572 Seacoast Gun Data Computer.
- 576 Flash Ranging Observer.
- 578 Observation Station Operator, Coast Artillery.
- 586 Sound Ranging Observer.
- 608 Gun Crewman, Coast Artillery.
- 645 Fire Control Instrument Operator, Field Artillery.
- 724 Range Section Operator, Coast Artillery.
- 802 Artillery Mechanic, Minor Maintenance.
- 836 Sound Recorder, Field Artillery.
- 844 Gun Crewman, Light Artillery.
- 845 Gun Crewman, Heavy Artillery.
- 864 Gun Crewman, Medium Artillery.
- 1531 Gun Crewman, Pack Artillery.

c. Antiaircraft Artillery (including organizational maintenance).

- 527 Antiaircraft Range Section NCO.
- 597 Antiaircraft Artillery Machine Gun Crewman, SP.
- 598 Antiaircraft Artillery NCO, SP Weapons.

- 601 Antiaircraft Artillery Automatic Weapons Crewman.

- 633 Fire Control Electrician, Antiaircraft (Automatic Weapons).

- 634 Fire Control Electrician, Antiaircraft (Gun).

- 635 Searchlight Electrician.

- 692 Height Finder Observer.

- 763 Searchlight Crewman.

- 833 Artillery Mechanic, Antiaircraft (Automatic Weapons) Minor Maintenance.

- 834 Artillery Mechanic, Antiaircraft (Gun) Minor Maintenance.

- 841 Artillery Mechanic, Antiaircraft (Self-propelled) Minor Maintenance.

- 946 Searchlight NCO.

- 1645 Range Section Operator, Antiaircraft.

- 2601 Antiaircraft Artillery Gun Crewman.

- 3601 Antiaircraft Artillery Automatic Weapons Crewman, SP.

d. Tank and Antitank (including organizational maintenance).

- 610 Antitank Gun Crewman.

- 660 Tank Mechanic, Minor Maintenance.

- 1736 Light Tank Crewman.

- 2736 Medium Tank Crewman.

- 3736 Amphibian Tank Crewman.

e. Air Crew.

- 509 Bombardier.

- 580 Remote Control Turret Mechanic-Gunner.

- 611 Aerial Gunner.

- 612 Airplane Armorer-Gunner.

- 737 Flight Engineer.

- 748 Airplane Mechanic-Gunner.

- 757 Radio Operator-Mechanic-Gunner, AAF.

- 770 Airplane Pilot.

MILITARY OCCUPATIONAL CLASSIFICATION OF ENLISTED PERSONNEL

- 772 Liaison Pilot.
 - 773 Service Pilot.
 - 939 Aerial Photographer-Gunner.
 - 940 Aerial Photographer.
 - 1684 Airplane Power Plant Mechanic-Gunner.
 - 1685 Airplane Electrical Mechanic-Gunner.
 - 2750 Aerial Engineer.
 - 2756 Radio Operator and Mechanic. AAF.
 - 2867 Radar Observer-Mechanic, Bombardment.
2. *Intelligence, Reconnaissance, and Security.*
- a. *Reconnaissance.*
 - 733 Reconnaissance Car Crewman.
 - 761 Scout.
 - b. *Intelligence and Operations.*
 - 552 Control Tower Operator.
 - 631 Intelligence NCO.
 - 670 Master Gunner, Coast Artillery.
 - 671 Master Gunner, Antiaircraft (Gun).
 - 768 Control Center Technician.
 - 791 Air Operations Specialist.
 - 814 Operations NCO.
 - 832 Master Gunner, Antiaircraft.
 - c. *Radio Intelligence.*
 - 538 Voice Interceptor (Designated Language).
 - 543 Radio Intelligence Control Chief.
 - 709 Traffic Analyst (Radio).
 - 738 Intercept Operator, G.
 - 739 Intercept Operator, J.
 - 6709 Traffic Analyst, G.
 - 8709 Traffic Analyst, J.
 - d. *Security.*
 - 301 Investigator.
 - 510 Information Center Operator.
 - 518 Ground Aircraft Observer.
 - 526 Balloon Crewman.
 - 669 Military Policeman, Occupied Territory.
 - 677 Military Policeman.
 - 968 Mine Detector Operator.
 - e. *Gas and Chemical.*
 - 731 Smoke Generator Operator.
 - 786 Toxic Gas Handler.
 - 809 Decontaminating Equipment Operator.
 - 870 Chemical NCO.
 - 979 Chemical Warfare Man, General.
3. *Communications.*
- a. *Message Center.*
 - 542 Communications Chief.
 - 560 Pigeoneer.
 - 667 Message Center Clerk.
 - 674 Message Center Chief.
 - 765 Visual Signalman.
 - 805 Cryptographic Technician.
 - 807 Cryptographic Code Compiler.
- 808 Cryptanalysis Technician.
- b. *Telephone and Telegraph.*
- 039 Cable Splicer, Telephone and Telegraph.
 - 095 Central Office Repairman.
 - 097 Installer-Repairman, Telephone and Telegraph.
 - 115 Automatic Telephone System Maintenance Man.
 - 187 Repeaterman, Telephone.
 - 197 Submarine Cable Station Technician.
 - 209 Submarine Cable Station Operator.
 - 232 Switchboard Installer-Repairman, Manual.
 - 236 Telegraph Operator.
 - 237 Teletype Operator.
 - 238 Lineman, Telephone and Telegraph.
 - 239 Teletype Mechanic.
 - 261 Wire Chief, Telephone and Telegraph.
 - 309 Telephone Operator.
 - 384 Installer, Toll Telephone and Telegraph.
 - 641 Field Lineman.
 - 650 Telephone Switchboard Operator.
 - 801 Cryptographic Repairman (Designated Equipment).
 - 893 Facsimile Operator.
 - 894 Facsimile Technician.
 - 950 Wire Repairman, VHF.
- c. *Radio and Radar Operation.*
- 514 Radar Crewman (Designated Set).
 - 740 Radio Operator, Intermediate Speed.
 - 756 Radio Operator, AAF.
 - 759 Radio Operator, CNS.
 - 760 Radio Operator, AACS.
 - 766 Radio Operator, High Speed, Manual.
 - 776 Radio Operator, Low Speed.
 - 777 Radio Operator, High Speed, Automatic.
 - 798 Transmitter Attendant, Fixed Station.
 - 799 Intercept Operator, Fixed Station.
 - 842 Radar Operator, AN/TPQ (Designated Model).
 - 843 Radar Operator, AN/TPT (Designated Model).
 - 866 Radar Observer, Sea Search.
 - 869 DF Evaluator.
 - 1766 Radio Operator, AN/MRQ (Designated Model).
4. *Transportation.*
- a. *Motor Transportation (including organizational maintenance).*
 - 014 Automotive Mechanic (Second Echelon).
 - 316 Automobile Serviceman.
 - 345 Truck Driver, Light.

FUNCTIONAL GROUPING OF MILITARY OCCUPATIONAL SPECIALTIES

- 378 Motorcyclist.
 - 735 Full-Track Driver.
 - 931 Truck Driver, Heavy.
 - 932 Special Vehicle Operator.
 - b. Animal Transportation (including organizational care).*
 - 093 Horsebreaker.
 - 094 Horseshoer.
 - 235 Teamster.
 - 563 Horse Artillery Driver.
 - 565 Pack Driver.
 - 710 Stable Sergeant.
 - 712 Packer, Animal.
 - 713 Packmaster.
 - c. Railway Transportation.*
 - 033 Brakeman, Railway.
 - 047 Traffic Man, Railway.
 - 058 Conductor, Railway.
 - 069 Dispatcher, Railway.
 - 110 Locomotive Engineer.
 - 111 Locomotive Fireman.
 - 185 Railway Signal Operator.
 - 265 Yardmaster.
 - d. Water Transportation (including organizational maintenance).*
 - 065 Seaman.
 - 080 Marine Engineer.
 - 117 Marine Fireman.
 - 118 Small Boat Operator.
 - 141 Marine Oiler.
 - 546 Coxswain, Mine Yawl.
 - 547 Master, L Boat.
 - 732 Amphibian Tractor Driver.
 - 797 Amphibian Truck Mechanic (DUKW).
 - 837 Amphibian Track Vehicle Mechanic.
 - 838 Seaman, Landing Craft.
 - 839 Marine Engineman.
 - 927 Amphibian Transportation NCO.
 - 934 Amphibian Truck Driver.
 - e. Air Transportation.*
 - 967 Air Transportation Technician.
 - 2967 Flight Traffic Clerk.
- 5. Supply.**
- a. General.*
 - 252 Foreman, Warehouse.
 - 348 Parts Clerk, Automotive.
 - 505 Ammunition NCO.
 - 581 Signal Supply Technician.
 - 582 Aerial Mine Technician.
 - 583 Engineer Supply Technician.
 - 656 Submarine Mine Loader.
 - 714 Mine Supply Maintenance Technician.
 - 769 Chief Storekeeper, Railway.
 - 815 Ordnance Supply NCO.
 - 821 Quartermaster Supply Technician.
 - 825 Medical Supply NCO.
 - 826 AAF Supply Technician.
 - 835 Supply Clerk.
 - 847 Prosthetic Dental Supply Clerk.
 - 848 Parts Clerk, Armament.
 - 901 Munitions Worker.
 - 949 Ammunition Renovator.
 - b. Food-Service, Purchasing and Supply.*
 - 017 Baker.
 - 037 Meat Cutter.
 - 060 Cook.
 - 371 Purchasing Agent.
 - 819 Commissary Steward.
 - 820 Subsistence NCO.
 - 824 Mess Sergeant.
 - c. Cargo Handling (including organizational maintenance).*
 - 246 Cargo Gear Mechanic.
 - 271 Longshoreman.
 - 470 Cargo Checker.
 - 473 Winch Operator.
- 6. Maintenance.**
- a. Armament Repair.*
 - 903 Small Arms Weapons Mechanic.
 - 907 Mechanic, Turret.
 - 913 Artillery Mechanic, Light.
 - 914 Artillery Mechanic, Heavy.
 - 915 Artillery Mechanic, Heavy Antiaircraft.
 - 923 Welder, Armor Plate.
 - 973 Chief Artillery Mechanic.
 - 978 Artillery Mechanic, Light Antiaircraft.
 - 1907 Gyrostabilizer Mechanic.
 - b. Aircraft Armament Maintenance.*
 - 575 Remote Control Turret Repairman.
 - 662 Aerial Torpedo Mechanic.
 - 678 Power Turret and Gunsight Mechanic.
 - 681 Power Turret and Gunsight Repairman.
 - 960 Remote Control Turret Mechanic.
 - c. Airplane Maintenance and Repair.*
 - 528 Airplane Hydraulic Mechanic.
 - 548 Fabric and Dope Mechanic.
 - 550 Airplane Woodworker.
 - 555 Airplane Sheet Metal Worker.
 - 559 Glider Mechanic.
 - 573 Welder, Aircraft.
 - 665 Fuel Cell Repairman.
 - 684 Airplane Power Plant Mechanic.
 - 685 Airplane Electrical Mechanic.
 - 687 Airplane Propeller Mechanic.
 - 689 Airplane Cable Mechanic.
 - 747 Airplane and Engine Mechanic.
 - 750 Airplane Maintenance Technician.
 - 762 Airplane Engine Repairman.
 - 911 Airplane Armorer.
 - 925 Aircraft Engineering Technician.
 - 956 Airplane Carburetor Repairman.

MILITARY OCCUPATIONAL CLASSIFICATION OF ENLISTED PERSONNEL

- 958 Airplane and Engine Electrical Accessories Repairman.
 964 Airplane Supercharger Repairman.
- d. Instrument Repair.*
 098 Instrument Repairman, Nonelectrical.
 338 Instrument Repairman, Electrical.
 381 Watch Repairman.
 574 Bombsight and Automatic Pilot Repairman.
 579 Casemate Electrician.
 683 Bombsight Mechanic.
 686 Airplane Instrument Mechanic.
 899 Director Repairman, Electrical, Heavy Antiaircraft Artillery.
 917 Director Repairman, Mechanical, Heavy Antiaircraft Artillery.
 918 Fire Control Repairman, Light Antiaircraft Artillery.
 919 Control System Repairman, Heavy Antiaircraft Artillery.
 921 Height Finder Repairman.
 922 Instrument Repairman, Fire Control.
 957 Airplane Electrical Instrument Mechanic.
 959 Airplane Mechanical Instrument Repairman.
 961 Airplane Gyro Instrument Repairman.
 962 Optical Instrument Repairman.
 994 Servo Mechanic, PQ Target Airplane.
- e. Radio and Radar Repair.*
 150 Crystal Grinder.
 647 Radio Repairman, Aircraft Equipment.
 648 Radio Repairman.
 649 Radio Repairman, Fixed Station.
 754 Radio Mechanic, AAF.
 775 Radar Mechanic, Ground Equipment (Designated Set).
 778 Radio Mechanic, AACS.
 792 Radio Repairman, Single Channel Teletype.
 849 Radar Mechanic, Troop Carrier.
 850 Radar Mechanic, Night Fighter.
 851 Radar Mechanic, Beacon.
 852 Radar Mechanic, RCM
 853 Radar Mechanic, Navigation.
 854 Radar Mechanic, Sea Search.
 856 Radar Mechanic, Sea Search (LAB).
 860 Radar Mechanic (GEE).
 862 Radar Mechanic (IFF).
 863 Radar Mechanic (GCA).
 867 Radar Mechanic, Bombardment.
 868 Radio-Teletype Mechanic.
 933 Instrument Landing Equipment Mechanic.
 948 Radar Mechanic, Ground Loran.
 951 Radio Repairman, VHF.
- 952 Radar Repairman, Gun-Laying Equipment (Designated Set).
 953 Radar Repairman, Reporting Equipment (Designated Set).
 955 Radar Repairman, Airborne Equipment (Designated Set).
 974 Radar Repairman, AN/TPT (Designated Model).
 993 Radio Mechanic, PQ Target Airplane.
 1648 Radio Repairman, AN/MRQ (Designated Model).
- f. Photography Equipment Repair.*
 042 Camera Repairman.
 158 Microfilm Equipment Repairman.
 206 Sound Projector Repairman.
 207 Sound Recording Equipment Maintenance Man.
 941 Camera Technician.
- g. Special Equipment Repair.*
 229 Medical Equipment Maintenance Technician.
 282 Office Machine Serviceman.
 366 Orthopedic Mechanic.
 593 Link Trainer Mechanic.
 969 Link Celestial Navigation Trainer Mechanic.
- h. Automotive Equipment Repair.*
 138 Motorcycle Mechanic.
 240 Tire Rebuilder.
 319 Construction Equipment Mechanic.
 337 Foreman, Automotive Repair Shop.
 413 Motor Inspector.
 529 Wrecker Crewman.
 905 Mechanic, Engine, Wheel Vehicle (Gasoline).
 906 Mechanic, Chassis, Wheel Vehicle.
 908 Mechanic, Chassis, Track Vehicle.
 909 Mechanic, Engine, Track Vehicle.
 912 Electrician, Automotive.
 926 Mechanic, Fuel Induction.
 965 Mechanic, Automotive, Wheel Vehicle (Third Echelon).
 966 Mechanic, Automotive, Track Vehicle (Third Echelon).
- i. Railway Maintenance.*
 181 Signal Mechanic, Railway.
 182 High Voltage Lineman.
 184 Substation Operator.
 199 Section Hand, Railway.
 258 Substation Electrician.
 281 Third Rail Repairman.
 401 High Voltage Cable Splicer.
- j. Railway Equipment Maintenance.*
 046 Car Carpenter, Railway.
 048 Car Mechanic, Railway.
 112 Locomotive Mechanic.

FUNCTIONAL GROUPING OF MILITARY OCCUPATIONAL SPECIALTIES

- 135 Electric Locomotive Repairman.
- 205 Shop Engineer, Railway.
- k. Boat Maintenance.*
- 202 Carpenter, Ship.
- 456 Calker.
- 477 Mechanic, Marine Engine.
- 478 Ship Fitter.
- l. Balloon Maintenance.*
- 535 Balloon Gas Handler.
- 615 Chief Balloon Rigger.
- 619 Balloon Rigger.
- 639 Balloon Armorer.
- m. Shop Maintenance.*
- 024 Blacksmith.
- 114 Machinist.
- 129 Foundryman.
- 148 Pattern Maker, Wood.
- 242 Toolroom Keeper.
- 256 Welder, Combination.
- 302 Machine Operator (Designated Machine).
- 341 Shop Maintenance Mechanic.
- 342 Master Mechanic.
- 431 Machinist's Helper.
- 457 Shop Clerk.
- n. Maintenance, General.*
- 013 Diesel Mechanic.
- 030 Boilermaker.
- 050 Carpenter, General.
- 061 Coppersmith.
- 077 Powerhouse Engineer.
- 078 Electrician.
- 081 Engineman, Operating.
- 082 Stationary Engineer.
- 084 Stationary Fireman.
- 092 Generator Switchboard Operator.
- 113 Woodworking Machine Operator.
- 121 Utility Repairman.
- 144 Painter, General.
- 145 Painter, Sign.
- 164 Plumber.
- 165 Lineman, Power.
- 166 Powerman.
- 189 Rigger.
- 201 Sheet Metal Worker.
- 270 Cooper.
- 304 Electric Motor Repairman.
- 322 Refrigeration Mechanic.
- 506 Portable Power Generator Repairman.
- 822 Utilities NCO.
- 846 Portable Power Generator Operator.
- o. Salvage and Repair.*
- 044 Canvas Cover Repairman.
- 192 Saddle and Harness Maker.
- 194 Salvage Technician.
- 200 Sewing Machine Operator.
- 204 Shoe Repairman.
- 234 Tailor.
- 530 Salvage Repair NCO.
- 609 Leather and Canvas Worker.
- 620 Parachute Rigger and Repairman.
- 924 Bomb Salvage Technician.
- p. Laundry Operation and Maintenance.*
- 102 Foreman, Laundry.
- 103 Laundry Machine Operator.
- 104 Laundry Maintenance Mechanic.
- q. Fumigation and Bath.*
- 591 Foreman, Fumigation and Bath.
- 706 Fumigation and Bath Man.
- 7. Medical.**
- a. Medical Care.*
- 067 Dental Laboratory Technician.
- 072 Physical Therapy Technician.
- 264 X-ray Technician.
- 365 Optician.
- 409 Medical Technician.
- 422 Podiatrist.
- 452 Optometrist.
- 657 Medical Aidman.
- 673 Medical NCO.
- 855 Dental Technician.
- 861 Surgical Technician.
- b. Pharmacy and Laboratory.*
- 149 Pharmacist.
- 484 Entomology Technician.
- 858 Medical Laboratory Technician.
- 859 Pharmacy Technician.
- c. Veterinary.*
- 120 Meat or Dairy Inspector.
- 250 Veterinary Technician.
- 700 Veterinary Ambulance Orderly.
- d. Sanitation.*
- 196 Sanitary Technician.
- 8. Construction and Engineering.**
- a. Construction, General.*
- 034 Bricklayer.
- 035 Carpenter, Heavy Construction.
- 059 Foreman, Construction.
- 063 Crane Operator.
- 064 Power Shovel Operator.
- 100 Structural Steel Worker.
- 116 Dredgeman.
- 214 Stonemason.
- 259 Well Driller.
- 359 Construction Machine Operator.
- 533 Demolition Specialist.
- 729 Pioneer.
- 804 Camouflage Technician.
- 817 Pontoneer.
- b. Diving Operations.*
- 454 Diver.
- 455 Diver's Helper.

MILITARY OCCUPATIONAL CLASSIFICATION OF ENLISTED PERSONNEL

c. Logging and Sawmill.

- 329 Lumberjack.
- 459 Sawmill Machine Operator.
- 462 Forest Products Tallyman.
- 464 Millwright, Sawmill.
- 466 Foreman, Logging.

d. Fire Fighting.

- 383 Fire Fighter.

e. Oil and Water Supply (including organizational maintenance).

- 220 Pump Operator.
- 485 Petroleum Storage Technician.
- 487 Petroleum Pumping Equipment Repairman.
- 727 Water Supply Technician.

9. Technical.

a. Surveying and Drafting.

- 004 Aerial Phototopographer.
- 070 Draftsman.
- 071 Draftsman, Mechanical.
- 074 Draftsman, Structural.
- 075 Draftsman, Electrical.
- 076 Draftsman, Topographic.
- 136 Model Maker.
- 191 Rodman and Chainman, Surveying.
- 227 Surveyor.
- 228 Survey and Instrument Man.
- 230 Surveyor, Topographic.
- 243 Geodetic Computer.
- 387 Cartographer.
- 577 Survey and Instrument NCO, Field Artillery.
- 1076 Observation Draftsman.

b. Photography.

- 043 Cameraman, Motion Picture.
- 130 Animation Artist.
- 131 Film Editor, Motion Picture.
- 132 Electrician, Motion Picture.
- 137 Projectionist, Motion Picture.
- 152 Photographer.
- 208 Sound Recorder, Motion Picture.
- 285 Cameraman, Animated Motion Picture.
- 286 Motion Picture Production Technician.
- 287 Sound Editor, Motion Picture.
- 407 Sound Mixer, Motion Picture.
- 415 Electrician, Sound Transmission.
- 449 Process Background Supervisor.

c. Printing and Publishing.

- 128 Multilith or Multigraph Operator.
- 167 Lithographic Pressman.
- 168 Printer.
- 169 Job Pressman.

d. Photographic Laboratory.

- 016 Laboratory Technician, V-mail or Microfilm.
- 028 Blueprinter or Photostat Operator.

- 107 Photolithographer.

- 134 Laboratory Technician, Motion Picture.
- 945 Photographic Laboratory Technician.

e. Chemical and Physics Laboratory.

- 160 Physics Laboratory Assistant.
- 292 Chemist.
- 293 Chemical Engineer.
- 358 Glassblower.
- 411 Chemical Laboratory Assistant.

f. Weather Observation (including maintenance).

- 782 Weather Equipment Technician.
- 784 Weather Observer.
- 787 Weather Forecaster.
- 790 Weather Observer-Teletype Technician.
- 942 Radiosonde Operator.

g. Training (including maintenance).

- 233 Athletic Instructor.
- 458 Dog Trainer.
- 617 Altitude Chamber Technician.
- 658 Link Trainer Instructor.
- 659 Instructor (Designated Subject).
- 688 Tow Target Reel Operator.
- 691 Flexible Gunnery Trainer Operator-Mechanic.
- 703 Coxswain, Radio Target Boat.
- 938 AAF Gunnery Instructor.
- 970 Link Celestial Navigation Trainer Operator.

h. Miscellaneous.

- 486 Safety Inspector.
- 170 Engineering Aide (Designated Field).
- 479 Still Operator.
- 719 Oxygen and Acetylene Plant Operator.
- 722 Submarine Mine Planter.

10. Administration.

a. Clerical—Administrative.

- 055 Clerk, General.
- 056 Postal Clerk.
- 213 Stenographer.
- 267 Translator.
- 279 Legal Clerk.
- 320 Interpreter.
- 373 Sales Clerk.
- 405 Clerk-Typist.
- 502 Administrative NCO.
- 622 Finance Technical Clerk.
- 623 Finance Typist Clerk.
- 624 Finance Clerk.

b. Classification and Guidance.

- 262 Occupational Counselor.
- 263 Psychiatric Social Worker.
- 275 Classification Specialist.
- 289 Personnel Consultant Assistant.
- 290 Personnel Technician.

c. Machine Records.

FUNCTIONAL GROUPING OF MILITARY OCCUPATIONAL SPECIALTIES

- 272 Key Punch Operator.
- 400 Tabulating Machine Operator.
- 425 Tabulating Machine Repairman.

d. Military Band.

- 020 Band Leader.
- 175 Bandsman, Oboe.
- 176 Bandsman, Bassoon.
- 432 Bandsman, Clarinet.
- 433 Bandsman, Cornet or Trumpet.
- 434 Bandsman, Bass Drum.
- 435 Bandsman, Snare Drum.
- 436 Bandsman, Euphonium or Baritone.
- 437 Bandsman, Flute or Piccolo.
- 438 Bandsman, French Horn.
- 439 Bandsman, Saxophone.
- 440 Bandsman, Trombone.
- 441 Bandsman, Tuba.

e. Special Services.

- 274 Writer, Military Subjects.
- 288 Playwright.
- 296 Artist.
- 442 Entertainment Specialist.

f. Miscellaneous.

- 022 Barber.
- 188 Duty Soldier II.
- 356 Foreman, Labor.
- 521 Basic.
- 522 Duty Soldier I.
- 564 Special Assignment.
- 566 Duty NCO.
- 590 Duty Soldier III.
- 625 Officer Candidate.
- 629 Student.
- 803 Bugler.

Section III

Numerical List of Military Occupational Specialties

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948	RADAR MECHANIC, GROUND LORAN	120	1736	LIGHT TANK CREWMAN	126
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Section IV

Specifications for Military Occupational Specialties

AERIAL PHOTOTOPOGRAPHER (004)

Photogrammetrist (AAF)

Uses aerial photographs in the construction of planimetric and topographic maps, aeronautical charts, and controlled and uncontrolled mosaics.

Makes mathematical computations in connection with the construction of tables and graphs to correct calculations for distortion in photographs and stereographic displacements. Constructs control boards upon which mosaics are assembled and makes planimetric maps for use in constructing topographic maps with stereocomparagraph.

Must be familiar with conventional signs and symbols used in military mapping. Ability to interpret aerial photographs essential.

Must be experienced in topographic drafting.

SUGGESTED SUBSTITUTES

076 Draftsman, Topographic

387 Cartographer

DIESEL MECHANIC (013)

Locomotive Diesel Mechanic

Tractor Mechanic (Diesel)

Inspects, tests, and performs field repairs and adjustments, unit replacement, or complete rebuilding of Diesel engines and accessory equipment in a mobile or fixed repair shop.

Visually inspects or uses such testing devices as test light and injector testing apparatus to determine causes of faulty operation. Locates trouble and makes repairs and adjustments on timing gears, ignition, transmission, brakes, clutches, differentials, superchargers, and fuel injection systems. Using such tools and equipment as auto mechanic's tools, valve grinders, drill presses, and lathes, replaces defective unit or subassemblies or completely tears down, overhauls, and rebuilds unit or subassemblies.

Must have knowledge of the theory, construction, and operation of Diesel powered engines.

SUGGESTED SUBSTITUTES

319 Construction Equipment Mechanic

477 Mechanic, Marine Engine

660 Tank Mechanic, Minor Maintenance

905 Mechanic, Engine, Wheel Vehicle (Gasoline)

909 Mechanic, Engine, Track Vehicle

AUTOMOTIVE MECHANIC (014)

(SECOND ECHELON)

Airplane Target Motor Mechanic

Automotive Equipment Mechanic (AAF)

Electrician, Automotive (Second Echelon)

Motorcycle Mechanic (Second Echelon)

Motor Transportation NCO

Inspects and performs first and second echelon organizational maintenance service and repairs on gasoline powered military motor vehicles, including motorcycles.

Examines vehicles for mechanical defects of power plant, body, or chassis features by visual inspection, road test, and by use of such testing devices as compression valve and fuel test gauges and neon timing light. Checks such elements as carburetor and ignition systems, brakes, wheel alignment, tightness of all body and chassis clamps and bolts, electrical connections, and proper lubrication.

Using such auto mechanic's tools as pliers, screw drivers, wrenches, gauges, punches, and hammers, performs minor repairs and replaces defective or malfunctioning parts and units not requiring disassembly of assemblies or subassemblies as defined in Army regulations and as specified by Table of Equipment for an Army organization.

May also be required to perform first and second echelon maintenance on power ground equipment and Diesel or marine engines.

May repair dented fenders or bodies, touch up marred paint, patch or mend automobile upholstery, flush, drain, and solder leaking radiators, and change or patch tires.

Must have knowledge of construction and operation of automotive engines and ignition systems.

At supervisory level, is responsible for control and coordination of maintenance crew.

SUGGESTED SUBSTITUTES

316 Automobile Serviceman

660 Tank Mechanic, Minor Maintenance

LABORATORY TECHNICIAN, V-MAIL OR MICROFILM (016)

Operates microfilm equipment or supervises the work of a V-mail or microfilm processing laboratory in which negatives are developed and paper prints made by continuous or still projection.

MILITARY OCCUPATIONAL CLASSIFICATION OF ENLISTED PERSONNEL

Photographs documents in microfilm machine and processes negatives with chemical solutions. Makes paper prints from negatives by exposing film, using a continuous enlarger or still projector. Processes paper prints through chemical solutions and dries prints on a drying drum.

Must have knowledge of mechanical equipment and procedures used in the operation of a V-mail or microfilm station. Should have knowledge of photographic chemistry and be able to judge whether film being produced and paper being printed are of proper quality and to prepare processing solutions.

Civilian photographic experience in continuous processing laboratory or equivalent training and experience desirable.

SUGGESTED SUBSTITUTES

134 Laboratory Technician, Motion Picture

152 Photographer

945 Photographic Laboratory Technician

BAKER (017)

Chief Baker

Bakes bread and allied flour products, such as rolls, cakes, pies, and pastries, in a fixed or mobile bakery. Requisitions supplies and maintains simple records.

Weighs proper amounts of ingredients and mixes them, using an electrically powered mixing machine, or kneads by hand. Places dough in proofing room or rack to ferment. Cuts dough into uniform portions with dough knife. Shapes chunks into loaves, places them in greased pans, and inserts them in oven. Regulates oven temperature by manipulating drafts or thermostatic controls. Removes baked bread.

Cleans all machinery and equipment. In a mobile bakery, aids in loading and unloading equipment, digging oven pit and firing trench, and assembling field ovens.

SUGGESTED SUBSTITUTE

060 Cook

BAND LEADER (020)

Orchestra Leader

Directs rehearsals and conducts performances of a military band.

Prepares rehearsal schedules, selects and arranges music and inspects musical instruments and equipment.

May serve as noncommissioned officer in full charge of band or as first assistant to a commissioned officer band leader.

Must be able to arrange orchestrations and direct band when performing at military ceremonies.

Should be thoroughly familiar with wind and percussion musical instruments.

BARBER (022)

Beautician

Cuts and shampoos hair of military personnel. Gives shaves and trims mustaches.

Shapes neckline with comb and scissors and shaves neck. Trims hair to proper length. May give permanent waves, marcel, and finger waves.

BLACKSMITH (024)

Foreman, Blacksmith	Heat Treater
Forging Press Operator	Tool Dresser
Hammersmith	

Performs miscellaneous duties of forging, forge-welding, heat treating of metals, and operation of drop hammers and power presses in a military repair, boiler, or machine shop, to assist in accomplishment of repairs to equipment and machinery.

Dresses tools required in repairing machinery and equipment by sharpening and tempering. Forges metal articles and parts from iron or steel in repairing or manufacturing machine parts and tools. Forging operations include drawing, upsetting, bending, twisting, punching, and welding. Operates furnaces and quenching and drawing tanks for heat treatment of tools, springs, and other forgings. May operate forging bulldozers and bolt headers for quantity production of machine-bent and forged parts.

Equipment includes blacksmith's tools, anvils, forges, blowers, power and steam hammers, forging machines, and bulldozers; heat treating, spring tempering, and tool furnaces; bar-shears and spring-making machinery.

Must be familiar with coal or coke forges. Must be able to make medium and light machine hand forgings. Should have knowledge of heat treatment of steel. Must have knowledge of various methods of shaping heated metal.

SUGGESTED SUBSTITUTES

030 Boilermaker

256 Welder, Combination

BLUEPRINTER OR PHOTOSTAT OPERATOR (028)

Operates and services blueprint or photostat machines used to reproduce maps, charts, communications, or other graphic matter.

Places material to be copied in frame beneath lens, adjusts illumination, places photographic paper in machine, times exposure, and operates machine to develop prints. Dries and trims copies.

SPECIFICATIONS FOR MILITARY OCCUPATIONAL SPECIALTIES

SUGGESTED SUBSTITUTES

055 Clerk, General
 405 Clerk-Typist
 945 Photographic Laboratory Technician

BOILERMAKER (030)

Boiler Inspector Foreman, Boilermaker
 Boilermaker, Layer-out Punch and Shear Operator

Overhauls locomotive boilers, tenders, and pressure tanks and builds and repairs tanks, vats, or other containers made of heavy steel in a locomotive boiler or other repair shop.

Patches, rebuilds, or replaces such parts as fire boxes, flue sheets, and flues in locomotive boilers, air and water tanks, and coal hoppers. Performs such operations as laying out work on plates and cutting plates to size and shape, punch-holes in plates for rivets or bolts, bending angle irons and plates to desired radius, calking seams and rivet heads, fastening boiler tubes or flues into headers, assembling and riveting or welding headers, tubes, and baffle plates. Inspects, tests, and examines boilers to determine adequacy of repairs and fitness for service.

Equipment includes air hammer, air and electric drill, oxyacetylene cutting and welding equipment; lay-out tools; nibbler, punches, and shears; pneumatic riveters and grinders, swaging and expanding machinery, boiler test apparatus.

Must have knowledge of the construction and functioning of various types of boilers.

SUGGESTED SUBSTITUTE

201 Sheet Metal Worker

BRAKEMAN, RAILWAY (033)

Switchman, Railway
 Train Crewman (Designated Type) (AAF)

Operates as member of a railroad train crew receiving and transmitting signals to locomotive engineer relative to train movement.

Signals locomotive engineer to stop or move train. Throws track switches at points where no switch tender is stationed. Couples and uncouples cars to make and break-up trains. Sets brakes by hand on cars not coupled to engine or train. Switches cars from track to track in railroad yard in accordance with written orders concerning make-up of trains. Stakes flags and flares in front of and behind train in emergencies.

Must be familiar with railroad operating and safety rules, semaphore signals, timetables, and train orders. Must be familiar with the principles of air brake operation and connecting and disconnecting air hose.

SUGGESTED SUBSTITUTE

111 Locomotive Fireman

BRICKLAYER (034)

Lays brick, tile, terra cotta, or other building blocks to construct walls, arches, partitions, and other masonry structures.

Binds and lays bricks or tile in course by imbedding in layer or mortar or cement and checking vertical and horizontal alignment of wall with spirit level and plumb bob. Cuts bricks or blocks with bricklayer's hammer or with hammer and chisel to provide various size materials as needed. Shapes mortar joints between courses of bricks with jointer or trowel point.

May clean finished wall with wire brush or acid to remove excess cement or mortar.

Must be skilled in the use of such tools as mortar trowels, bricklayer's hammers, jointers, squares, gauge lines, level, plumb bobs, rules, and various templates used for arch construction.

SUGGESTED SUBSTITUTE

214 Stonemason

CARPENTER, HEAVY CONSTRUCTION (035)

Bridge Builder Bridge Inspector
 Bridge Carpenter Dock Builder
 Bridge Foreman

Builds and repairs wooden structures made from heavy timbers and planking.

Performs such heavy timber work as capping, shoring, bracing, and underpinning. Constructs flumes, caissons, bridges, trestles, cofferdams, retaining walls, supports for bridge forms, and other wooden structures.

Uses carpenter's tools, broadax, adz, pneumatic drills, and drift bolt drivers.

May assemble, disassemble, load and unload bridge sections, pontoons and other component parts of temporary bridges coincident to their transportation. May supervise or inspect construction and repair work.

SUGGESTED SUBSTITUTES

050 Carpenter, General
 202 Carpenter, Ship

MEAT CUTTER (037)

Butcher
 Foreman, Butcher

Cuts whole carcasses, such as beef and lamb, into halves, quarters, or smaller cuts. Prepares meat for distribution to units from a commissary or refrigeration plant.

Makes finer cuts to fill weight requirements of

MILITARY OCCUPATIONAL CLASSIFICATION OF ENLISTED PERSONNEL

various units. Balances deliveries to distribute desirable cuts evenly. Weighs and stores meat.

Uses knives, hand saws, and cleavers.

Must know methods of cutting meat to avoid waste. Must know which cuts are adapted to a specific purpose.

SUGGESTED SUBSTITUTE

060 Cook

CABLE SPLICER, TELEPHONE AND TELEGRAPH (039)

Cable Repairman

Maintains military wire communication system by splicing insulated wires to join multiple conductor cables in order to preserve the continuity and insulation of each conductor.

Completes splices by drying out moisture with paraffin or desiccant, wrapping according to method used, and covering with lead sleeves. Tests the sheath by means of gas or air under pressure; tests conductors for continuity and insulation by means of buzzer system or other test instruments after splice has been made. Protects splices from moisture when work is suspended before completion; splices and vulcanizes rubber covered military cable.

Uses variety of electrician's tools and equipment.

Must be competent to work with all types of military or civilian cable, including lead or rubber coated wire.

SUGGESTED SUBSTITUTES

238 Lineman, Telephone and Telegraph

641 Field Lineman

714 Mine Supply Maintenance Technician

CAMERA REPAIRMAN (042)

Equipment Repairman, Motion Picture

Laboratory Equipment Repairman

Photographic Equipment Maintenance Man

Inspects, cleans, tests, and repairs ground, aerial, or motion picture cameras and darkroom equipment.

Disassembles camera, using small screw drivers; and cleans lens, removing all dust and grit. Tests and adjusts shutter and checks freedom of moving parts. Mends light leaks in bellows. Cleans interior and exterior and lubricates moving parts with light oil. Uses precision hand tools to rebuild and maintain in service the mechanical parts of still and motion picture cameras.

May clean and make minor adjustments to optical instruments.

Civilian experience in repair of cameras or optical instruments desirable.

SUGGESTED SUBSTITUTES

098 Instrument Repairman, Nonelectrical

686 Airplane Instrument Mechanic

CAMERAMAN, MOTION PICTURE (043)

Operates and performs minor maintenance on a motion picture camera and associated equipment in studio, maneuver, or combat assignments involving the production of motion pictures for training or intelligence purposes.

Determines most effective angle of view from which to photograph given action, adjusts and focuses camera, and follows action through view finder, taking necessary shots. Performs preventive maintenance on camera by inspecting, dusting, and oiling equipment. Makes minor repairs and simple replacement of parts such as gears, gates and latches, using screw drivers and pliers.

Must understand the uses, advantages, and limitations of various types of cameras used by the Army, and be able to substitute, improvise, and make effective use of accessories. Must understand basic principles of film editing and directing.

SUGGESTED SUBSTITUTES

152 Photographer

285 Cameraman, Animated Motion Picture

CANVAS COVER REPAIRMAN (044)

Canvas Worker

Repairs all types of canvas equipment such as seat covers, awnings, tents, boat sails, tarpaulins, gun and truck covers in an Army repair shop.

Sews, patches, and darns, using needles and thread or sewing machine. Lays out canvas and cuts off lengths using shears or electric cutting machine. May hand sew grommets, using mallet, punch, and hardwood block. Sews galvanized iron rings to edges of holes, using a sailmaker's palm, needle, and linen thread. Attaches ropes and metal fittings to canvas by hand sewing.

SUGGESTED SUBSTITUTE

609 Leather and Canvas Worker

CAR CARPENTER, RAILWAY (046)

Cabinetmaker

Foreman, Car Carpenter

Pattern Maker, Wood (Railway)

Upholsterer

Constructs, assembles, and repairs wooden and steel freight and passenger cars, lays out and builds wooden frames from blueprints or sketches, and cuts and shapes wood in fabricating and repairing wood parts in a military railway repair shop.

SPECIFICATIONS FOR MILITARY OCCUPATIONAL SPECIALTIES

Makes and hangs doors, lays floors and roofing, and fits siding to railroad cars. Operates wood-working machinery and uses carpenter's hand tools for trimming and shaping wood patterns. Determines whether finished patterns are in exact accordance with prescribed dimensions. Reinforces joints, glues joints, and clamps until dry. Replaces worn padding, springs, and seat covers.

Equipment includes woodborers, jointers, molders, planers, and sanders, rip, cross-cut, band, and scroll saws, pattern maker lathe and trimmer and carpenter's and cabinetmaker's hand tools, sewing machines and canvas working equipment.

Must be able to work from blueprints or sketches. Must know mechanics of fitting joints, laying floors, and fitting sidings. Must be familiar with carpenter's folding rules and squares. Must know various types of lumber.

SUGGESTED SUBSTITUTES

050 Carpenter, General
202 Carpenter, Ship

TRAFFIC MAN, RAILWAY (047)

Car Distributor, Railway

Supervises sidetracking, switching, and distribution of railway cars and trains along haulage ways of a military railroad system.

Maintains records of location and movement of railway cars, capacity of yards and sidings, and directs movement of cars as required.

Must have knowledge of rules and regulations governing operation of military railways.

SUGGESTED SUBSTITUTE

058 Conductor, Railway

CAR MECHANIC, RAILWAY (048)

Airbrake Mechanic

Brake Inspector, Railway Car

Foreman, Car Mechanic

Railway Mechanic, General

Performs various types of mechanical repair work in a military railway repair shop on freight and passenger cars in connection with the maintenance of railway rolling stock.

Repairs or replaces broken or defective parts of railway cars, including under frames, wheel trucks, couplers, and draft gears. Performs such operations as cutting, drilling, reaming, riveting, and calking. Straightens, reinforces, and repairs car frames and members. Inspects and packs car journals. Inspects and repairs or replaces air brakes and air brake operating equipment.

Equipment includes air hammer, air drill, air jack, and drill bits. Drill bits include punches,

reamers, and rivet dies and tongs; lay-out tools such as straight edge, rule, dividers, scribes, and squares. Operates such machine tools as drill press, metal punch, power shears, emery wheel, and hydraulic press.

Must be able to work from blueprints and written or oral specifications. Must have knowledge of the principles of railway car design and construction and operation of the various parts.

SUGGESTED SUBSTITUTES

112 Locomotive Mechanic
342 Master Mechanic

CARPENTER, GENERAL (050)

Cabinetmaker	Carpenter, Construction
Carpenter (AAF)	Packing Case Maker

Performs a variety of carpenter tasks in connection with the construction and repair of buildings, drainage systems, waterworks, airports, motion picture sets, and related structures.

Repairs and replaces stringers. Builds frames, lays floors, and puts up partitions. Erects concrete forms and scaffolds. Installs doors and windows. Erects and installs guard rails.

Packs and crates material and builds bracing and framing to hold boxes and crates in place in freight cars, ships, airplanes, or other means of transportation. Constructs special devices for transportation of acids, explosives, and other delicate items.

Must be able to work from blueprints and drawings. Should be able to construct cases and have knowledge of corrosion proof packing.

SUGGESTED SUBSTITUTE

202 Carpenter, Ship

CLERK, GENERAL (055)

Account Clerk	File Clerk
Audit Clerk	Historical Clerk
Bookkeeper	Librarian
Clerk (Non typist) (AAF)	Mail Orderly
Dispatcher-Clerk (Crew)	Processor
Dispatcher-Clerk, Motor Vehicle	Proofreader
Ditto or Mimeograph Machine Operator	Record Clerk
	Statistical Clerk

Performs a variety of clerical tasks in connection with the operation of a military unit.

Compiles and files reports and statistics. Tabulates and posts data in record books. Takes telephone messages and gives information to callers. Checks calculations and makes simple bookkeeping entries. Sorts and distributes mail. Duplicates orders, memoranda and bulletins using mimeograph and ditto machines

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Must be familiar with military office procedure and must understand military correspondence and filing.

(See Clerk-Typist 405 for jobs requiring typing.)

POSTAL CLERK* (056)

Performs various postal duties in a military post office.

Receives, sorts, and distributes all classes of mail. Insures and registers mail. Issues and cashes postal money orders, war savings stamps, and war bonds, and sells stamps and other postal supplies. Keeps accurate record of all transactions and is responsible for all funds and supplies in his possession.

Should have experience in post office work as postal clerk or carrier, and have knowledge of postal laws, regulations, and forms pertaining to handling of all classes of mail.

*The use of this MOS applies specifically to duties under the jurisdiction of an Army Postal Officer and is not intended to apply to mail distribution duties being performed in an organizational unit.

SUGGESTED SUBSTITUTES

055 Clerk, General

405 Clerk-Typist

CONDUCTOR, RAILWAY (058)

Supervises operation of railway freight and passenger trains and is responsible for prompt movement of freight and passengers to destination.

Supervises freight and passenger train crews comprising brakemen, engineers, firemen, and switchmen. Receives and handles bills of lading and written orders. Supervises make-up and removal of freight at wayside destinations.

Must have knowledge of standard operating rules and regulations governing operation of military railways. Must be familiar with semaphore signals used by railroads.

SUGGESTED SUBSTITUTE

033 Brakeman, Railway

FOREMAN, CONSTRUCTION (059)

Construction Technician (AAF)

Foreman, Pipe-Line Construction

Supervises the construction or repair of buildings, drainage systems, airports, water works, culverts, and related structures.

Interprets blueprints, sketches, and written or verbal orders. Determines work procedure and assigns duties to various military specialists. Supervises excavating, grading, bracing, form building, and backfilling. Supervises unloading and distribution of construction materials. Inspects completed work.

Must be able to supervise construction workers such as carpenters, construction laborers, bricklayers, structural steel workers, riggers, and construction machine operators. Must be familiar with engineering and construction principles and be able to give technical directions. Must be able to read blueprints and specifications.

SUGGESTED SUBSTITUTES

035 Carpenter, Heavy Construction

050 Carpenter, General

COOK (060)

Prepares food for the personnel of a military organization, using a daily menu as a guide.

Seasons and cooks meats, soups, desserts, vegetables, sauces, and gravies in accordance with military methods of food preparation.

Must be familiar with regulations governing kitchen sanitation. Must be capable of setting up and operating field range.

SUGGESTED SUBSTITUTE

017 Baker

COPPERSMITH (061)

Fabricates and repairs kettles, tanks, coils, roof gutters, tubing, fittings, and other similar objects in a military pipe and tin shop or other similar unit.

Performs soft metal fabrication, tube bending, brazing, and babbitting. Works with soft metals such as copper, tin, zinc, and brass.

Equipment includes babbitting and brazing furnaces, snipers, shears, bending brakes, mallets, and soldering tools.

Must have knowledge of soft metal treating processes, including brazing of parts.

SUGGESTED SUBSTITUTES

164 Plumber

201 Sheet Metal Worker

CRANE OPERATOR (063)

Gantry-Crane Operator

Hoist Operator

Operates an electric, gas, steam, or Diesel-powered crane, or Gantry-crane fixed or mounted on a car or Gantry-crane bridge to lift and move heavy objects from place to place.

Engages clutch, manipulates throttle, and presses buttons and brake to move and stop crane, to rotate crane on chassis, to raise and lower crane to run Gantry-crane towers along track, to move crane on bridge, or to raise and lower the load line and objects attached to it.

Must coordinate arm and foot movements in op-

SPECIFICATIONS FOR MILITARY OCCUPATIONAL SPECIALTIES

erating crane levers and pedals with judgment of distances. Must be able to perform driver maintenance activities on crane.

SUGGESTED SUBSTITUTE

064 Power Shovel Operator

POWER SHOVEL OPERATOR (064)

Operates and performs first echelon maintenance on Diesel, gas, or steam power shovel equipment mounted on crawler-tread or railway car to excavate or move material.

Operates hand levers such as swing, hoist, crowd stick, and travel to turn unit on chassis, hoist dipper boom upward and downward, force crowd stick into material, and actuate caterpillar treads for forward and backward motion. Operates foot levers to brake turning of unit to stop vertical movements of dipper boom and to brake forward or backward motion of unit. Using mechanic's hand tools assembles and disassembles such attachments to the shovel as pile driver, ditcher, crane, clam shell bucket, and dragline. Cleans shovel, greases steel cable and moving parts, cleans and oils pulley blocks, tightens loose bolts and nuts. Adjusts friction clutches and replaces worn or broken parts. Checks oil, water, and fuel, and makes adjustments to carburetor and governor.

May drive truck and trailer to haul shovel to work site.

SUGGESTED SUBSTITUTE

063 Crane Operator

SEAMAN (065)

Able Seaman	Cargo Foreman
Assistant Barge Captain	Chief Quartermaster
Barge Captain	Deckhand
Boatswain	Motor Boat Operator
Boatswain's Mate	Quartermaster

Performs a variety of deck duties aboard mine planters, tugs, lighters, barges, small boats, emergency rescue boats, repair ships, tow boats, crash boats, transports, freighters, and passenger ships.

Handles lines, ropes, and hawsers when docking or anchoring ship. Fills fuel and water tanks. Operates and assists in maintaining deck machinery of ship to which assigned, such as booms, capstons, winches, anchor windlass, lifeboat davit, and ramp. Steers ship under supervision according to compass bearing and rules of navigation. Stands watch on large ship, reporting approaching ships and hazards to navigation. Signals to other ships and shore stations, using semaphore signals or blinker lights. Cleans deck and quarters and paints hull, including scraping and sanding old paint.

May perform simple carpentry work, involving the cutting and shaping of wood parts for decks and life boats.

Should know simple navigation, splicing, knots, rigging, semaphore, and use of carpenter's tools.

DENTAL LABORATORY TECHNICIAN (067)

Dental Mechanic

Fabricates and repairs partial and full dentures to replace missing teeth.

Makes plaster-of-paris casting from wax impression and sets artificial teeth individually in wax, manipulating articulator to bring castings of upper and lower jaws together to ascertain that each tooth is properly set. Processes vulcanite and plastic materials and completes denture by hand trimming with knife, file, or sandpaper and polishing on a buffing lathe. Makes bridges, splints, metal clasps, crown, and inlays by making molds for dentures and casting and soldering parts according to specifications. Repairs broken dentures and bridges. May develop X-ray pictures and keep records.

SUGGESTED SUBSTITUTE

855 Dental Technician

DISPATCHER, RAILWAY (069)

Directs movements of trains over a military railroad within a prescribed area such as a division.

Maintains records of train movements, including time of arrival and departure from stations. Re-routes or reschedules trains during emergencies and reports all accidents to trains, damages to roads, and failures to meet schedules. Drafts written instructions to engineers and conductors. Maintains communication with other dispatchers by telephone or telegraph. Dispatches wreck train and crew to railroad sections affected by wrecks, and aerial bombardment.

Must have knowledge of rules and regulations governing operation of military railways.

SUGGESTED SUBSTITUTES

047 Traffic Man, Railway
058 Conductor, Railway
265 Yardmaster

DRAFTSMAN (070)

Tracer

Prepares clear, complete, and accurate working plans and detailed drawings from sketches or engineer's notes for use in connection with specifications for miscellaneous Army projects.

Makes proposed drawings and plans from oral or written instructions. Makes final sketches, checking dimensions of parts, materials to be used, and relation of parts to the whole. Makes finished de-

MILITARY OCCUPATIONAL CLASSIFICATION OF ENLISTED PERSONNEL

tailed drawings to scale.

Must be experienced in the use of drafting instruments. Should be familiar with paints and washes for coloring drawings.

Should have general knowledge of engineering practices, machinery, materials, and mathematics to complete drawings. Familiarity with blueprints and photostat apparatus helpful.

SUGGESTED SUBSTITUTES

071 Draftsman, Mechanical
074 Draftsman, Structural
075 Draftsman, Electrical
076 Draftsman, Topographic

DRAFTSMAN, MECHANICAL (071)

Draftsman, Railway

Prepares detailed drawings of machines and equipment in connection with the construction or repair of military equipment or mechanical devices.

Sketches proposed mechanical parts and devices, working from job orders, specifications, models, and other drawings. Prepares finished detailed drawings to scale of parts for trucks, construction equipment, rail equipment, engines, weapons, and other military equipment, and for heating, ventilating, and refrigeration systems. Enlarges drawings, using proportionate squares.

May design simple mechanical parts. Uses standard drafting tools and equipment. Must have a working knowledge of machines, engineering practices, and mathematics.

SUGGESTED SUBSTITUTES

070 Draftsman
074 Draftsman, Structural
075 Draftsman, Electrical

PHYSICAL THERAPY TECHNICIAN (072)

Assists in administering prescribed physiotherapeutic treatments by means of massage, electrotherapy, hydrotherapy, thermotherapy and remedial gymnastics in the treatment of various muscular and physical disorders.

Instructs patients in gymnastics. Administers galvanic, heat, ultra violet and infra red ray treatment, hot baths, whirlpool, and other water remedies. Applies vibrator, massage, and other mechanical devices to patient's body as prescribed. Applies and removes casts and strappings.

Maintains records of attendance and appointments, and makes minor repairs to electrical equipment.

Must have thorough knowledge of physical therapy procedures and treatment obtained through practical training and experience in a hospital or other institution.

SUGGESTED SUBSTITUTES

264 X-ray Technician 409 Medical Technician
283 Athletic Instructor 861 Surgical Technician

DRAFTSMAN, STRUCTURAL (074)

Prepares detailed drawing of structures in connection with military construction projects.

Sketches proposed plans for bridges, columns, docks, and buildings, working from field notes, specifications, models, and other drawings. Prepares finished drawings to scale of bridge trusses, plate girders, roof trusses, trestle bridges, columns, dock piles, bracing, beams, floors, and walls.

Uses standard drafting tools and equipment.

Must have a working knowledge of structural principles, engineering practices, and mathematics.

SUGGESTED SUBSTITUTES

070 Draftsman
071 Draftsman, Mechanical
075 Draftsman, Electrical

DRAFTSMAN, ELECTRICAL (075)

Prepares working plans, detail drawings, and wiring diagrams from rough or detailed sketches and notes, for the erection, installation, and wiring of electrical machinery, equipment, and fixtures for military power plants, buildings and manufacturing units.

Prepares proposed drawings and plans followed by final sketches, checking dimensions of parts, materials to be used, and relation of various parts to whole. Inks in all lines and letters on pencil drawings. Makes finished designs from final sketches.

Uses standard drafting tools and equipment.

Should have general knowledge of engineering practices, machinery, materials, and mathematics to complete drawings. Familiarity with photostat and blueprint machines helpful.

SUGGESTED SUBSTITUTES

070 Draftsman
071 Draftsman, Mechanical
074 Draftsman, Structural

DRAFTSMAN, TOPOGRAPHIC (076)

Prepares topographical maps from any original source, such as surveyor's notes, aerial photographs, or other maps.

Makes corrections denoting changes in configuration on topographical maps as indicated by aerial photographs of the same area. Uses Army conventional signs in the preparation of military maps, mosaics, sketches, and overlays.

Uses standard drafting tools and equipment.

SPECIFICATIONS FOR MILITARY OCCUPATIONAL SPECIALTIES

Must have knowledge of United States military maps and symbols and be able to interpret accurately aerial photographs. Must be familiar with the technique of maintaining a field operations map. Familiarity with foreign military maps and symbols desirable.

SUGGESTED SUBSTITUTES

070 Draftsman
387 Cartographer

POWERHOUSE ENGINEER (077)

Supervises the operation and maintenance of an electric power or lighting plant.

Supervises personnel engaged in operating gas or Diesel engines, boilers, turbines, generators, switchboards, transformers, and other power plant equipment and machines. Assigns duties, checks operating conditions, inspects equipment, and keeps operating records. Directs the storing of coal, gas, and oil. Supervises maintenance personnel in cleaning, adjusting, repairing, and replacing parts of machines and electrical equipment.

Must have experience in steam generation and electrical switchboard operation.

SUGGESTED SUBSTITUTES

078 Electrician
082 Stationary Engineer
084 Stationary Fireman

ELECTRICIAN (078)

Installs, tests, and repairs electrical fixtures, electrical apparatus, electrical control equipment, and wiring used in connection with radio, communication, light and power systems of buildings, or other military projects.

Follows blueprints, sketches, and specifications in installing and repairing panel boards, circuit breakers, outlet boxes, switch boxes, pull boxes, and other concealed equipment. Measures, cuts, threads, and bends conduit used to connect outlets, panels, and boxes. Pulls wire through conduit by means of steel snake. Splices wire by removing insulation with knife or cutting pliers, twists bare wires together, and solders and tapes connection. Hangs lighting fixtures and connects them to wiring system. Tests wire circuits for continuity, using battery with light and bulb connection.

May test and repair electric motors and automatic starting and stopping devices.

Uses electrician's hand tools and instruments.

SUGGESTED SUBSTITUTES

571 Electrician, Harbor Defense
579 Casemate Electrician

633 Fire Control Electrician, Antiaircraft (Automatic Weapons)
635 Searchlight Electrician

MARINE ENGINEER (080)

Chief Marine Engineer

Supervises the operation of ship's engine room. Stands watch in engine room and supervises engine room crew in operating engines, pumps, injectors, condensers, boilers, and other mechanical, electrical, and sanitary equipment. Controls speed of power equipment and checks correct water level in boilers. Keeps an operating log. Supervises the repair and maintenance of engine room equipment. Makes small engine parts, using machinist's hand tools.

Must know the operation of steam, Diesel, or gasoline ship engines.

ENGINEMAN, OPERATING (081)

Air Compressor Operator Operator, Gas Dispenser
Engineman, Diesel Winch Mechanic

Operates and maintains gas or Diesel engine and auxiliary equipment used for generating power.

Makes preoperating inspection for amount of gas or oil in fuel tank, amount of oil in crankcase, water level in battery, fan belt, ignition wiring, and engine mounts. Starts engine, using electric starter or hand crank. Observes ammeter, oil gauge, rpm indicator, and temperature gauges during operation and regulates speed upon instructions from supervisor. Makes post-operating inspection similar to preoperating inspection. Tightens hose connections, motor mounts, and other engine parts. Cleans and adjusts spark plugs, carburetor, and fuel injector and lubricates equipment. Operates and makes minor repairs to air compressors, pumps, controllers, reverse and reduction gears, generators, hand and power winches, and concrete mixers. Uses mechanic's hand tools to replace packing in pumps, adjust controllers, clean gear boxes, tighten wire connections, clean commutators, replace brushes and worn or damaged parts, including spark plugs, injectors, brakes, and drums.

SUGGESTED SUBSTITUTES

014 Automotive Mechanic (Second Echelon)
839 Marine Engineman

STATIONARY ENGINEER (082)

Operates and maintains stationary steam engines supplying power and heat used in machine shops, laundries, refrigeration plants, and power plants.

Supervises personnel engaged in firing and maintaining steam boilers and operating auxiliary power equipment. Checks operating conditions, inspects operating equipment, makes minor adjustments to

MILITARY OCCUPATIONAL CLASSIFICATION OF ENLISTED PERSONNEL

equipment, and keeps operating records of hours of operation and fuel consumed.

Supervises the cleaning, chipping, and rebuilding of boilers and fire boxes, and the cleaning and maintenance of auxiliary equipment.

Must know safety regulations governing boiler operation.

SUGGESTED SUBSTITUTES

077 Powerhouse Engineer

084 Stationary Fireman

STATIONARY FIREMAN (084)

Tends, feeds, cleans, and maintains steam pressure in a portable, semiportable, or fixed boiler used for supplying heat or steam to power equipment, an industrial process, or a building.

Uses mechanical stoker, chain grate, or hand shovel to place fuel, such as coal, coke, oil, or gas in fire box. Spreads fuel evenly and pokes fire to obtain maximum heating value. Regulates drafts and fuel supply to maintain required steam pressure, which is indicated on a gauge. Maintains water in boiler at required level. Introduces additional water by manipulating valves to control operation of a water feed pump. Removes ashes and clinkers from fire box, using bars, shovels, and wires.

Should know purpose and operation of such devices as safety valves, steam and water gauges, safety cocks, water feed pumps, and forced or induced draft fans.

SUGGESTED SUBSTITUTES

111 Locomotive Fireman

117 Marine Fireman

GENERATOR SWITCHBOARD OPERATOR (092)

Operates a generator switchboard in an electric generating plant.

Operates feeders, switch gear, and auxiliary equipment of an electric generating plant by remote control.

Watches switchboard dials continually during an assigned shift. Connects and disconnects generating units to and from the line, regulating the output according to the demand for power. Makes the switching changes necessary to connect the generators with the various power feeders. Keeps a record of all switching operations and regular readings of the output of the generators.

Must know correct procedure to follow in cases of emergency.

SUGGESTED SUBSTITUTE

184 Substation Operator

HORSEBREAKER (093)

Foreman, Horse Trainer

Horse Trainer

Trains horses and mules to bridle and saddle in a remount depot, squadron, or troop, for issue to and use by mounted units.

Trains horses and mules for single, double, or multiple hitch work and pack carrying. Trains animals to recognize commands and follow them.

May supervise other horsebreakers, teamsters, and stable orderlies in feeding, handling, training, conditioning, and supplying horses and mules.

Uses such leather equipment as halter, bridle, longe, and saddle.

Must know habits and care of horses and mules, and be capable of riding and breaking untrained animals.

SUGGESTED SUBSTITUTES

235 Teamster

710 Stable Sergeant

713 Packmaster

HORSESHOER (094)

Shoes Army horses and mules to protect feet from breaking, in such a manner as to interfere as little as possible with the natural gaits of the animal.

Makes preliminary examination of the animal as to gait, conformation of legs, and size, shape, and general condition of feet to determine the correct method of shoeing. Removes old horseshoe carefully, using clinch cutter and pinchers, and avoids injury to the hoof. Prepares hoof for shoeing by trimming and leveling the sole, using farrier's knife and horseshoer's rasp. Estimates size and weight of horseshoe to be used and reshapes to fit individual hoof by heating in forge and hammering to desired conformation on the anvil. Makes trial fittings when horseshoe is cold. Attaches horseshoe to hoof by driving horseshoe nails through the sole of hoof in such a manner as to protrude through the side wall surface. Cuts end of nails close to wall of hoof, using clippers, and secures horseshoes by clinching end of nails. Performs other blacksmithing work such as repairing or making metal parts used in the organization.

Uses such tools as anvil, clinch cutter, portable forge, hammers, farrier's knife, fulling iron, cutting nippers, farrier's pinchers, hoof-parer, tongs, horseshoer's rasp, pritchel, and vise.

Must be able to relieve pressure on injured or sensitive hoof areas and to correct faulty gaits in animals by corrective shoeing. In exceptional cases, may be required to hand-forge a shoe from an iron bar.

SPECIFICATIONS FOR MILITARY OCCUPATIONAL SPECIALTIES

CENTRAL OFFICE REPAIRMAN (095)

Frameman, Telephone and Telegraph
Insideman, Telephone
Telephone and Telegraph Equipment Repairman
(AAF)

Tests, repairs, and maintains manual telephone and telegraph equipment in a military central office.

Tests circuits and equipment to locate trouble, using testing devices such as voltmeters, ohmmeters, hydrometers, picks, and spring tension gauges. Diagnoses cause of trouble and makes repairs or adjustments by soldering proper connections, taping shorted wires, replacing burned out fuzes or resistance lamps, cleaning relays, or replacing defective parts. Adjusts relays, lamps, jacks, cords, plugs, repeater coils, and other equipment for proper functioning of a manual telephone exchange. Maintains heat coils and carbon block protectors. Executes service orders on local telephone truck and tie lines, battery and generator supply lines, long lines, and PBX supervising equipment. Installs, removes, and changes cross connections at distributing frame.

Uses wide variety of tools including soldering iron, augers, ratchets, screwdrivers, wrenches, burnishing tool, hammers, hack saws, wire cutters, files, pliers, and countersinks.

Must be acquainted with installation and functioning of central office equipment. Must be able to read circuit diagrams.

SUGGESTED SUBSTITUTE

097 Installer-Repairman, Telephone and Telegraph

INSTALLER-REPAIRMAN, TELEPHONE AND TELEGRAPH (097)

Aircraft Warning Plotting Board Installer-Repairman

Installs, maintains, and repairs military telephone and telegraph station equipment, including telephone subsets, telegraph instruments, protectors, and key switching equipment.

Installs telephone substation equipment such as telephones and bells, using field or permanent type equipment. Strings wires and installs cable and junction boxes, and tests newly installed lines for continuity, clarity, and volume. Using testing sets, locates defective equipment. Tightens loose connections and replaces worn wires and broken or defective parts. Inspects poles and tests for cable troubles, using climbing irons and body tools. Performs overhead installation, construction, and maintenance work. Makes shop repairs on rubber covered cable, using vulcanizing equipment.

Must be able to use a wide variety of electrician's hand tools and testing equipment including side-

cutting pliers, wire cutters, brace and bit, saw, line-man's belt, safety belt, and testing set.

Must be able to read wiring diagrams, and must know all common troubles to be found in operation of a telephone circuit.

SUGGESTED SUBSTITUTES

238 Lineman, Telephone and Telegraph
641 Field Lineman

INSTRUMENT REPAIRMAN, NONELECTRICAL (098)

Weather Instrument Technician

Maintains and makes repairs on sensitive non-electrical instruments and apparatus used for measuring, testing, recording, and other related scientific operations and observations.

Periodically inspects and cleans such instruments as compasses, clinometers, barometers, hand levels, thermometers, surveying instruments, theodolites, and telescopes, binoculars, and other optical instruments. Repairs damaged or malfunctioning instruments with the aid of such small hand and bench tools as pliers, hammers, tweezers, calipers, screw drivers, micrometers, precision lathe, sensitive drill, and lapping and polishing machines. Disassembles intricate mechanisms, repairing or replacing worn or defective parts; reassembling and making precision adjustments.

Should have knowledge of the principles of mechanics and physics.

SUGGESTED SUBSTITUTES

381 Watch Repairman
686 Airplane Instrument Mechanic
922 Instrument Repairman, Fire Control
957 Airplane Electrical Instrument Mechanic

STRUCTURAL STEEL WORKER (100)

Riveter, Pneumatic

Works as member of group of enlisted specialists raising and placing fabricated structural steel members such as girders, columns, and plates, and unites them permanently to form a structure.

Sets up and braces hoisting equipment for raising and placing structural steel. Rigs hoisting equipment with pulleys, ropes, and cables. Lashes, hitches, and hooks ropes, wire cables, chains, and slings to hoist structural steel into place for erecting and setting. Shifts, fits, and sets structural steel. Bolts structural steel members together. Drills holes in structural steel; reams out holes for bolting and riveting. Chips away rough surfaces on concrete and steel; calks steel seams and joints. Unites steel members by inserting rivets in holes and holds rivets in place while forming rivet heads.

MILITARY OCCUPATIONAL CLASSIFICATION OF ENLISTED PERSONNEL

Equipment includes oxyacetylene torch, wrenches, drift pins, mauls, air hammer, forge, tongs, hammers, pliers, gloves, and goggles.

Must be able to work from rough diagrams and sketches and oral and written instructions.

SUGGESTED SUBSTITUTES

030 Boilermaker
201 Sheet Metal Worker

FOREMAN, LAUNDRY (102)

Laundry Technician (AAF)

Supervises and instructs personnel in the operation of a fixed or mobile laundry unit. In a mobile unit, supervises lay-out of trailers and preparation for operation.

Estimates requirements and requisitions all laundry supplies. Supervises the preparation of bleaches, soaps, starches, and cleaning fluids. Instructs personnel in operation of such laundry equipment as washers, extractors, and tumblers.

May supervise sterilization operations.

Must know methods of washing, scouring, and dry cleaning of military clothing and equipment such as woolen blankets, uniforms, and overcoats.

SUGGESTED SUBSTITUTE

104 Laundry Maintenance Mechanic

LAUNDRY MACHINE OPERATOR (103)

Chief Operator, Sterilizer
Tumblerman
Washman

Operates one or more power-driven machines used to launder clothing and equipment for individuals and medical or salvage repair units in a fixed or mobile laundry.

Receives soiled clothing and equipment from the marker and places it in washing machine. Removes cleaned clothing from washer and places it into centrifugal extractor for the preliminary drying and then into a hot air dry tumbler for final drying. In a fixed installation, may also operate flat-work presser. In a mobile unit, aids in setting up trailers for field operation.

May operate these machines to sterilize or impregnate clothing and equipment.

Must know cleaning materials, temperatures, and procedures for different types of fabrics and dyes. Must know how to prevent shrinking, fading, and excessive weakening of textiles.

SUGGESTED SUBSTITUTES

102 Foreman, Laundry
104 Laundry Maintenance Mechanic

LAUNDRY MAINTENANCE MECHANIC (104)

Foreman Mechanic, Laundry Laundry Mechanic

Installs, adjusts, services, and repairs mechanical equipment used in fixed or mobile laundry units.

Installs laundry machines, such as washers, extractors, tumblers, and pressers, and power units, including high pressure steam boiler (100 lbs./sq. in.), electric or gasoline motors, or oil fired equipment according to sketches and blueprints. Uses plumber's, pipefitter's, steamfitter's, carpenter's, and general mechanic's tools to make water, steam, or pipe connections and repairs.

Lubricates operating mechanisms of all equipment, using oil containers or pressure grease guns. Determines extent to which any part needs repair. Repairs laundry machines by soldering and welding, using acetylene and low amperage electric welders.

May cut, bend, and install sheet metal, using sheet metal worker's tools.

SUGGESTED SUBSTITUTES

121 Utility Repairman
164 Plumber
341 Shop Maintenance Mechanic

PHOTOLITHOGRAPHER (107)

Draftsman, Lithographic
Foreman, Lithographer
Lithographer, General
Lithographer, Photo Transferer
Lithographic Engraver
Photographer, Copy Cameraman
Photographer, Photoengraving

Photographs military topographical maps and other documents and transfers the pattern or image thus produced to zinc lithographic plates which are used to reproduce copies of such topographical maps and other documents.

Arranges subject matter and focuses camera for proper enlargement or reduction. Makes exposures and prepares negative to be used in transferring image or pattern photographed to lithographic zinc plates. Selects properly grained lithographic plates and coats it with sensitized albumen solution. Places plates in vacuum frame easel, beneath the negative, and makes adjustments to center and orients the negative properly over the plate. Exposes plate to illumination of electric arc lights. Removes plate and manually processes it with chemicals to develop pattern and condition plate for use in press.

Equipment used includes plate whirler, vacuum frame easel, timer, wet plate negative lithographic plates, developing ink, and camera.

Must have a general knowledge of photographic and lithographic processes.

SPECIFICATIONS FOR MILITARY OCCUPATIONAL SPECIALTIES

LOCOMOTIVE ENGINEER (110)

Assistant Road Foreman, Engine
Locomotive Engineer (Diesel)
Locomotive Engineer (Electric)
Locomotive Engineer (Steam)

Operates steam, Diesel, or electric locomotive by manipulating levers which control speed and direction or locomotive in pulling and pushing freight and passenger cars over a military railroad.

Prepares locomotive for operation by checking working condition of various levers such as locomotive operating hand lever, throttle, air brake, sand, and reverse levers. Drives engine by manipulating levers, looking out of engine cab window and gauging adjustments by the condition of the track. Operates engine on through, local, or yard work and controls movement of train in accordance with train orders, schedules, and signals along the route. Oils and checks locomotive at halts.

May assist road foreman of engines in inspections to insure proper mechanical condition of motive power and in instructing engineers and firemen in their duties.

Equipment includes steam, Diesel, or electric locomotives of various heavy tonnages.

Must be thoroughly familiar with railroad semaphore signaling. Must be thoroughly acquainted with railroad safety precautions. Must be able to estimate grades and sharpness of curves and judge safe speeds of train.

SUGGESTED SUBSTITUTES

111 Locomotive Fireman
112 Locomotive Mechanic
135 Electric Locomotive Repairman

LOCOMOTIVE FIREMAN (111)

Fires and tends a locomotive boiler, maintaining even fire in locomotive fire box to generate steam for locomotive power.

Fuels boiler by hand, shoveling coal, coke, or other fuel into fire box or by manipulating valves to control flow of fuel oil to fire box. Maintains proper amount of water in tender or cistern. Checks water in gauge to determine whether boiler is adequately supplied. Supplies boiler with water by operating valve which causes water to be injected into boiler under pressure. Performs minor cleaning and maintenance on locomotive. Wipes gauges and control levers in engine cab. Performs elementary maintenance operations, such as replacing flexible air hose connections. When locomotive is in operation, keeps watch on roads and crossings from side of engine cab in order to avoid accidents.

Equipment includes locomotive of various heavy

tonnages, fire rake, and regulation locomotive shovel.

Must be able to judge condition of fire by its color to keep a steady heat. Must know correct height of water in boiler. Must be thoroughly acquainted with semaphore signals used on military railroads.

SUGGESTED SUBSTITUTES

033 Brakeman, Railway
084 Stationary Fireman
117 Marine Fireman

LOCOMOTIVE MECHANIC (112)

Foreman, Mechanic, Locomotive
Locomotive Brake Inspector
Locomotive Brake Mechanic
Locomotive Hostler
Oiler, Locomotive
Railway Locomotive Mechanic, General

Performs various types of mechanical repair in a railroad repair shop in connection with the maintenance of military railroad locomotives.

Tests engine parts for defects and replaces defective parts. Inspects, tests, and repairs or replaces air, vacuum, or steam brakes and brake operating equipment. Lays off and lines down locomotive shoes and wedges. Aligns and repairs locomotive rods and pins. Rebores cylinders. Repairs and replaces trim on locomotives. Adjusts and sets locomotive valves. Lubricates locomotive parts.

Equipment includes portable pneumatic and electric tools such as cylinder facers and crank pin turners, radial upright and sensitive drills, bolt and nut threading machinery, brake test rack, air pump cylinder grinder, cock grinder, and other brake repair equipment.

Must have knowledge of principles of locomotive design and construction and operation of various parts.

SUGGESTED SUBSTITUTES

114 Machinist
135 Electric Locomotive Repairman
341 Shop Maintenance Mechanic
477 Mechanic, Marine Engine

WOODWORKING MACHINE OPERATOR (113)

Operates woodworking machinery to fabricate wooden articles.

Cuts, shapes, fits, and assembles wood sections, using woodworking power machines and hand tools, and working from blueprints and drawings. Finishes work by filling nail holes with plaster wood and sandpapering by hand or machine to smooth finish. Keeps woodworking shop clean, oils power machinery, and sharpens saws, planes and chisels.

MILITARY OCCUPATIONAL CLASSIFICATION OF ENLISTED PERSONNEL

May do minor carpentry such as constructing and repairing tables, desks, shelves, and screens.

Uses hand tools such as planes, chisels, saws, files, levels, calipers, T-square, protractor, ruler, and clamps and such material as lumber, nails, screws, sandpaper and glue, and such power equipment as saws, jointers, planer, sander, drill press, lathe, and shaper.

SUGGESTED SUBSTITUTES

050 Carpenter, General
202 Carpenter, Ship

MACHINIST (114)

Engine Specialist (Machinist, Automobile)
Foreman, Machine Shop
Foreman, Machinist
Railway Mechanic, General
Tool Maker

Makes metal parts and tools from metal castings, forgings, and stock, working to close tolerances in a military machine shop.

Studies blueprint, selects metal stock, and lays out work, using guide gauge, straightedge, and protractor. Sets up work in machines and selects correct shaped and sharpened cutting tool for each type of machine to be used. Operates metal-working machines such as engine lathe for shaping metal parts, milling machine for surfacing metal by action of rotating cutter, planer for cutting flat surfaces on metal, power hack saw for sawing metal stock to length, shaper for shaping exterior surfaces of metal parts, vertical boring mill for cutting circular or cylindrical surfaces on metal parts, and drill press for cutting holes in metal. Checks dimensions of part during machine process with micrometers, calipers, gauges, and ruler. Cleans and oils each machine used. Sharpens cutting tools on grinder. Removes bars and excess metal from parts, using hand tools such as files and scrapers. Fits and assembles parts according to blueprints. May heat-treat parts by annealing, case hardening, or tempering.

Must be able to work a variety of metals, such as steel, wrought iron, cast iron, brass, and aluminum.

SUGGESTED SUBSTITUTES

302 Machine Operator (Designated Machine)
341 Shop Maintenance Mechanic

AUTOMATIC TELEPHONE SYSTEM MAINTENANCE MAN (115)

Maintains, repairs and tests switching and auxiliary equipment of an automatic telephone system such as may be installed at an Army or general headquarters.

Locates and diagnoses trouble and clears it by making necessary adjustments, replacement or repair of items such as switches, relays, selectors, terminal banks, keys, jacks, lamps, cords, plugs, generators, rectifiers, and brushes.

Uses electrician's small hand tools and test instruments.

Must be thoroughly familiar with the functioning of circuits, and with telephone repair and adjusting fundamentals.

SUGGESTED SUBSTITUTE

232 Switchboard Installer-Repairman, Manual

DREDGEMAN (116)

Drag Tender
Foreman, Dredge Pipeline
Dredge Leverman
Dredgehand

Operates dredge equipment and machinery aboard a vessel to excavate or move materials from channels, rivers and harbors to permit passage of ships, landing craft or other vessels.

Operates dredge equipment and machinery controlling raising, lowering and placing of drags on suction dredges. Operates levers to control excavating mechanisms, including spuds, anchor lines and other dredge equipment. Maintains in good repair and working order machines and mechanical equipment aboard the dredge.

May supervise laying of heavy pipelines on water, by use of pontoons or construction work.

Should have thorough working knowledge of dredging operations obtained through training and experience in the field.

MARINE FIREMAN (117)

Maintains proper steam pressure in marine boilers by stoking coal or controlling feed valves of oil burners.

Observes steam gauge to determine steam pressure and water gauge to assure that proper amount of water is maintained in boiler. Removes clinkers, ashes, and sludge from burners by means of bars, shovels, and wires.

Must understand the purpose of such devices as safety valves, steam and water gauges, blow-off cocks, condensers, feed water heaters, feed pumps, and ejectors. Must be above average in physical strength and capable of working in intense heat.

SUGGESTED SUBSTITUTES

084 Stationary Fireman
111 Locomotive Fireman
141 Marine Oiler

SPECIFICATIONS FOR MILITARY OCCUPATIONAL SPECIALTIES

SMALL BOAT OPERATOR (118)

Master, Ship
Mate

Directs the sailing, docking, loading, unloading, and maintenance of a small boat.

Supervises ship's crew in navigation and deck and engine operation. Orders ship's supplies and equipment. Keeps ship's log. Plots ship's course on chart. Uses sextant and other navigation instruments. Inspects stowage and bracing of cargo and equipment and embarking and disembarking of troops. Directs communication between ships and ship-to-shore.

Must know advanced seamanship navigation principles, piloting, deadreckoning, and celestial navigation, care of vessels, maritime rules, and mechanical operation of ships and equipment. Should be familiar with meteorology, including tides and currents.

MEAT OR DAIRY INSPECTOR (120)

Dairy Inspector
Meat Inspector

Inspects and examines foods of animal origin such as meat, fowl, fish, milk, cheese, and butter to insure compliance with purity, grade, and quality standards prior to, at time of, and subsequent to purchase of meat or dairy products.

Inspects storehouses and refrigerators where food is stored to insure compliance with Army sanitary regulations. Maintains records of inspections and findings and sends questionable articles of food to medical laboratory for examination.

May assist veterinary officer in the care and treatment of animals.

Must be familiar with Army sanitary standards and have working knowledge of food inspection methods.

SUGGESTED SUBSTITUTES

037 Meat Cutter
250 Veterinary Technician

UTILITY REPAIRMAN (121)

Maintenance Man
Mechanic, General

Keeps buildings and equipment of a unit or post in good repair and working order by performing a wide variety of maintenance tasks.

Constructs simple articles, such as rough-finish tables, training aids, gun racks, shelves, and partitions, using carpenter's tools or any other hand tools which are available. Follows oral instructions, rough sketches, and diagrams. In the field, improvises expedients in making temporary repairs to equipment when replacement parts are unavailable.

May assist second echelon maintenance men,

such as auto mechanics, electricians, or artillery mechanics.

Should have an elementary knowledge of and skill in maintenance of machinery, carpentry, plumbing, painting, and electricity.

MULTILITH OR MULTIGRAPH OPERATOR (128)

Multigraph Operator
Multilith Operator

Produces duplicate copies of printed or typed forms, orders, bulletins, memoranda, training aids, and charts by the operation of multilith and multigraph machines.

Stacks blank paper in feed carrier of multilith machine or sets type by hand in semicircular drum of multigraph machine. Adjusts paper guides to allow proper flow of paper through machine. Covers printed or typed plate with protective solution and secures plate to revolving drum of machine. Packs ink paste in ink fountain, using putty knife. Starts machine and checks printed matter for marginal correctness and general appearance. Corrects faulty margins by adjusting screw controls. Adjusts ink control to allow for correct flow. Cleans and oils moving parts. Keeps record of copies printed and files plates. Removes, sorts, and cleans multigraph type.

May operate mimeograph, ditto, or paper cutting machines.

FOUNDRYMAN (129)

Coremaker
Foreman, Foundry

Furnace Operator
Molder

Processes iron, aluminum, brass or other metal castings used in the repair of military equipment, performing such duties as making cores, preparing molds, firing and charging furnaces, pouring metal, and preparing castings for machining.

Makes cores used in molds for hollow castings by compacting a mixture of sand and binder into core boxes. Removes and smoothes cores, and hardens them by baking in oven.

Forms sand molds by sifting sand into flask (framework for shaping mold) and compacting the sand around pattern to be formed, using a hand ramming tool. Withdraws pattern from mold, using a draw screw, and patches slightly damaged impressions, using a molder's slick (knifelike smoothing tool). Applies coating of powdered coal, graphite, or molasses to strengthen mold impression.

Fires and charges an oil-fired or gas-fired pit furnace in which various metals or alloys are melted to be used in making castings. Ignites oil or gas burner and regulates valves on fuel and air lines to heat furnace to pouring temperature of metal. Fills crucibles with pig or scrap metal. Attaches

MILITARY OCCUPATIONAL CLASSIFICATION OF ENLISTED PERSONNEL

tongs to crucibles and lowers them into furnace by hand or with a hoist. Removes crucibles from furnace when molten metal is at proper pouring temperature, using a pyrometer or judging by the color of the metal. May transport crucible and pour molten metal into molds.

Removes castings from mold and cleans them by use of sandblast and wire brushes. May further prepare castings for machining by chipping with a pneumatic hammer and smoothing with portable surface grinder.

Must have knowledge of molding sands and how they are mixed. Must have knowledge of best temperatures for casting different types of metals.

ANIMATION ARTIST (130)

Prepares a series of animated drawings which are to be used in the production of motion pictures for instructional or training purposes.

Receives scenario and background material from the director and plans means of graphically representing actions or ideas. Decides on any special animation techniques to be used. Draws base drawings, backgrounds, extreme drawings, and inbetweens, which are first made on tracing paper and later transferred to celluloid. Produces a sequence of drawings, each drawing showing a slightly more advanced stage of the motion being depicted than the preceding one.

May draw pictorial charts and orthographic and perspective views. May opaque the area between lines after they have been traced on calluloids, using paints and brush.

Uses rule, inking pens, pencils, T-square, triangles, and French curves and air-brush equipment.

Must have manual skill and artistic ability to make technical animated drawings.

SUGGESTED SUBSTITUTE

296 Artist

FILM EDITOR, MOTION PICTURE (131)

Film Cutter

Negative Cutter

Edits, arranges, and composes film in connection with the production of motion pictures for intelligence and training purposes.

Marks and labels each scene. Watches the scenes as they are run through a moviola or projector many times. Makes rough cuts and first and final selections of scenes. Assembles selected scenes in the sequence prescribed in the scenario. Inserts titles, animated sections, close-ups, and special effects such as fade-outs and fade-ins. Rearranges scenes to produce better continuity and rhythm and to add more interest appeal. Reviews final assembly on a moviola.

May synchronize a sound track with the motion picture by running both films on a synchronizer and marking them at critical points. May cut negative to correspond with the finally edited work print motion picture. Must be familiar with edge numbering techniques.

Uses a rewriter, scraper, cement, and splicing clamp to splice film.

SUGGESTED SUBSTITUTE

287 Sound Editor, Motion Picture

ELECTRICIAN, MOTION PICTURE (132)

Electrician, Generator and Motion Picture

Installs, operates, and maintains electrical equipment used in making motion pictures.

Rigs, connects, operates, and strikes all electrical equipment used in motion picture production. Sets up high intensity arc lights, incandescent spotlights, and floodlights, as directed. Lays out electrical cables for the distribution of current from the power source to the lights, cameras, and sound equipment. Makes emergency splices and repairs on the cable. Locates loose connections, using voltmeter to test continuity of circuits.

Makes minor repairs to equipment, using soldering iron, blowtorch, pliers, screw drivers, hammers, knives, hack saws, and wrenches.

SUGGESTED SUBSTITUTES

078 Electrician

415 Electrician, Sound Transmission

LABORATORY TECHNICIAN, MOTION PICTURE (134)

Laboratory Supervisor, Motion Picture

Laboratory Technician, 16-mm

Laboratory Technician, 35-mm

Laboratory Technician, Sensitometry

Supervises or assists in the work of a motion picture film processing laboratory in which motion picture negatives are developed and positive prints for projection are made for military purposes.

Adjusts film printing machinery so that the continuous projection print made from separative negatives will be of uniform density throughout. Designs or improvises equipment to meet laboratory needs.

Must have knowledge of laboratory processes involved in the developing and printing of motion picture film.

ELECTRIC LOCOMOTIVE REPAIRMAN (135)

Maintains and repairs motors and electrical equipment on electric or Diesel-electric locomotives in a military railway locomotive repair or machine shop.

Makes trial runs, inspecting locomotives to determine defects in electric mechanisms and controls

SPECIFICATIONS FOR MILITARY OCCUPATIONAL SPECIALTIES

and prepares check sheet for repairs required. Disassembles electric control equipment, transformers, shunts, and electric circuits; tests parts; replaces parts where necessary. Disassembles, repairs, and assembles electric motors and generators.

Equipment includes general mechanic's tools, differential and monorail hoists, and ohmmeters and voltmeters for testing electrical equipment.

Must have knowledge of the construction and operation of electric locomotives.

SUGGESTED SUBSTITUTES

- 013 Diesel Mechanic
- 078 Electrician
- 304 Electric Motor Repairman

MODEL MAKER (136)

Constructs models of military equipment and of any other object or terrain for use in the production of motion pictures, study of equipment, manufacture of training aids, or the detailed study of terrain which has been or will be the site of military operations.

Constructs models to scale, using maps, drawings, blueprints, sketches, or photographs.

Employs such materials as clay, plaster-of-paris, sand, wood, metal, stone, and papier maché. Uses rulers, calipers, chisels, saws, hammers, and other carpenter's tools.

SUGGESTED SUBSTITUTES

- 050 Carpenter, General
- 296 Artist

PROJECTIONIST, MOTION PICTURE (137)

Operates and makes minor repairs and adjustments on motion picture projection and sound reproducing equipment to project motion pictures in connection with such activities as military intelligence, training, and entertainment.

Sets up machine by threading film from reel on upper spindle, over the driving sprocket and guide rollers, past the exciter lamp and projecting lamp, and onto empty reel on lower spindle.

Frames and focuses images on screen by turning regulating screws. Focuses blurred image by adjusting main lens. Turns dials to control volume and tone of the sound amplifier.

Inspects films on a rewinding device to detect such defects as loose or heavy splices, broken film, torn sprockets and holes, defective sound track, or dirty or oily condition. Splices broken film, using rewinder, film scraper, film cement, and splicing press. Places cue numbers on film, Adjusts reflector and adjusts and replaces carbon electrodes in lamps. Operates spotlight. Cleans and checks opera-

tion of projection and sound equipment, and replaces such parts as the projection lamp, exciter lamp, photo-electric cell, vacuum tubes, sound exciter, and amplifier when they are burned out. Replaces worn sprocket wheels and felt guide rollers, using common hand tools such as pliers and screw drivers.

MOTORCYCLE MECHANIC (138)

Inspects, maintains, and makes major repairs on motorcycles and accessory equipment in a military repair shop.

Examines and tests equipment to determine causes for faulty operation, checking such elements as carburetor, ignition system, cooling system, transmission, and clutch. Disassembles such parts of the motor, transmission, or running gear requiring repair, and repairs and replaces worn or defective parts. Reassembles unit, lubricating all moving parts and making adjustments for proper alignment and clearances.

May rebore cylinders, reface and regrind valves, and refit connecting rods. May balance fly wheels, straighten frames, and align wheels.

Must have a knowledge of construction and operation of various models of motorcycles and be skilled in the use of such tools and equipment as hammers, punches, chisels, socket and open end wrenches, files, hack saws, thickness gauges, squaring plate, fly wheel truing device, bench lathe, connecting rod aligner, valve refacing machine, and power grinders.

SUGGESTED SUBSTITUTES

- 905 Mechanic, Engine, Wheel Vehicle (Gasoline)
- 909 Mechanic, Engine, Track Vehicle
- 965 Mechanic, Automotive, Wheel Vehicle (Third Echelon)
- 966 Mechanic, Automotive, Track Vehicle (Third Echelon)

MARINE OILER (141)

Chief Oiler

Lubricates main engines, auxiliaries, and electric motors aboard ship by squirting oil into oil cups and filling grease cups to keep machinery in running order and to prevent overheating.

Assists marine engineer in repair work such as packing and pipe fitting, by lifting and holding parts and passing tools and material. Operates main and auxiliary engines by opening and closing throttle valves to start, stop, and control engines. Cleans engines by wiping excess oil off engine frames and base. Mops desk plates and washes wall plates in engine room.

May supervise a group of workers engaged in above duties.

MILITARY OCCUPATIONAL CLASSIFICATION OF ENLISTED PERSONNEL

PAINTER, GENERAL (144)

Painter, Automobile
Painter (AAF)

Applies paint to airplanes, automotive equipment, and buildings, using brush or paint spraying equipment.

Cleans and removes old paint and varnish, using putty knife, wire brush, sandpaper, and blowtorch. Matches and mixes paints and varnish, using proper amounts of pigment, linseed oil, turpentine, paint, putty, and coloring tints. Erects scaffolding by means of sectional ladders and planks or a working platform suspended from the roof. Fills nail holes or crevices with putty or plastic wood, smoothing surfaces with putty knife. Sandpapers woodwork and applies coatings of stain, shellac, and varnish.

May do striping, lettering, and other sign painting work. May paint structures and equipment for camouflage. May operate with a spray gun.

Must have knowledge of mixing and matching paint.

SUGGESTED SUBSTITUTE

145 Painter, Sign

PAINTER, SIGN (145)

Makes signs as are required in the operation of military post, camp, station, or in the field.

Designs, lays out, and paints signs on wood, metal, cloth, paper, and glass. Does free hand lettering when necessary. Makes signs and builds simple displays, using carpenter's and thinner's tools.

SUGGESTED SUBSTITUTE

144 Painter, General

PATTERN MAKER, WOOD (148)

Builds wooden patterns and core boxes, working from blueprints or drawings, in connection with the operation of a foundry.

Makes wooden patterns, using hand and machine tools. Checks work with calipers, protractors, straightedges, and other measuring instruments, making allowances for shrinkage of castings. Assembles and glues parts together and inserts dowels in abutting pieces. Sands surface smooth, fastens fillets along interior angles or corners, and applies shellac to finish pattern. Designs and constructs wooden core boxes.

Uses such hand and machine tools as lathe, borer and router, planer, power saw, sander, shaper, and carpenter's bench and hand tools such as saws, planes, hammers, mallets, scrapers, chisels, gauges, awls, brace, and bits.

PHARMACIST (149)

Directs and supervises pharmacy technicians in the compounding and dispensing of medicines.

Measures out or weighs proper amounts of each chemical and drug indicated in prescription, using balance scales and graduates, and combines them to make solutions, powders, tablets, and ointments. Supervises and instructs enlisted men in the filling of prescriptions and in the preparations of stock solutions and powders according to specifications and measurements listed in the United States Pharmacopeia Manual.

Must have state license to practice pharmacy.

SUGGESTED SUBSTITUTES

858 Medical Laboratory Technician

859 Pharmacy Technician

CRYSTAL GRINDER (150)

Grinds and calibrates crystals to be used in crystal-controlled radio sets.

Processes crystal wafers to the required dimensions for a frequency, using small drill press with circular holder revolving between abrasive-coated iron plates. Accurately measures and adjusts frequency of crystal by the use of standard electronic frequency measuring and calibrating equipment, and by hand finishing. Installs and performs first echelon maintenance on equipment, using screw driver, small wrenches, pliers, and hammer.

Must be familiar with all types of crystal cuts and their characteristics. Must know the type of holder to be used, the required crystal activity and tolerances and the type of test unit to be used in calibrating and supplying crystals for any particular set.

PHOTOGRAPHER (152)

Photographer, News
Photographer, Portrait

Makes indoor and outdoor photographs of military personnel, equipment and activities, and other material for publicity, training and instructional purposes.

Selects and arranges subject matter to secure proper emphasis, adjusts camera accordingly, and takes pictures.

May perform darkroom work, including film and paper processing, printing, and enlarging of still photographs. May make and process copies of documents, maps and photographs.

Must understand the mechanics, operation, care, and maintenance of still cameras of various types and their accessories. Should have knowledge of the fundamentals of optics, filters, use of auxiliary lighting units, and use of various chemical solutions and laboratory equipment used to process negatives.

SPECIFICATIONS FOR MILITARY OCCUPATIONAL SPECIALTIES

MICROFILM EQUIPMENT REPAIRMAN (158)

Repairs, rebuilds, adjusts, and maintains in service the mechanical and electrical parts of microfilm photographic equipment and accessories.

Diagnoses faults appearing on the microfilm, such as poor exposures, overlapping, and uneven illumination, and determines the source of mechanical or electrical malfunctioning. Disassembles microfilming machine and checks for worn or missing parts, such as slipping clutches and rollers and shorts in resistors, and adjusts and tightens loose parts, using precision and other hand tools. Installs new condensers, switches, brushes, and lamp assemblies, and solders wire connection with soldering iron. Inspects continuous enlarging and paper processing equipment and makes adjustments and repairs to the mechanical equipment, using pliers, wrenches, and screw drivers.

SUGGESTED SUBSTITUTES

016 Laboratory Technician, V-mail or Microfilm
042 Camera Repairman

PHYSICS LABORATORY ASSISTANT (160)

Knock Engine Tester
Petroleum Laboratory
Technician
Petroleum Test Engine
Operator
Soils Technician

Assists in physical testing and experimental work in a military laboratory.

Assembles and prepares laboratory equipment for tests. Performs routine tests and assists in special researches and experiments on various kinds of matter such as chemical equipment, munitions, petroleum, soils and textiles.

Observes, tests and records results.

May determine various physical and chemical properties of petroleum products such as viscosity, specific gravity, flash and fire points, melting point, sediment and residue.

May determine knock intensity and octane rating of gasoline and kerosene fuels by actual test on engine and comparing with control samples.

May analyze soils and aggregates for stability, moisture content and bearing value involving a working knowledge of concrete, soil cement and asphalt, and determine suitability for various types of construction work.

May test textiles and other materials for tensile strength, durability and the like.

Equipment used includes laboratory apparatus such as scales, test tubes, flow meters, hardness testers, gauges, thermometers, burners, and distillation equipment.

Must be able to work under limited supervision and use individual initiative and judgment. Should be thoroughly familiar with various types of physics laboratory equipment.

PLUMBER (164)

Pipe Fitter
Pipe Fitter, Railway
Steamfitter

Installs, assembles, bends, cuts and threads air, water, gas and low and high pressure steam, pipe, and fittings in various systems used for the conveyance or distribution of steam, air, gas, and liquids.

Cuts large pipe with chisel and hammer, or oxy-acetylene torch, and small pipe with pipe cutter. Reams end of cut pipe with reamer. Threads pipe, using vise, stock, and dies. Bends pipe by hand-driven or power-driven machine. Works with steel, iron, copper, and brass pipe, and such fittings and fixtures as couplings, elbows, unions, valves, traps and hangers for holding the pipe in place. Uses pipe chain and Stillson wrench for holding or turning pipe. Removes and replaces defective parts.

May remove and clear clogged pipes, or prepare new sections if the obstruction cannot be removed. May specialize in the installation, maintenance, and repair of waste or water disposal plumbing systems and fixtures.

Is capable of following oral or written specifications and blueprints. Should have a working knowledge of the use of calking, packing, and gasket materials.

SUGGESTED SUBSTITUTES

104 Laundry Maintenance Mechanic
121 Utility Repairman

LINEMAN, POWER (165)

Erects and repairs power lines consisting of poles, cables, transformers and auxiliary equipment for the transmission of electric power to military installations.

Digs holes and sets up poles to support power lines. Climbs poles and attaches cross arms, insulators and transformers. Attaches wires to insulators by means of a tie-wire and makes connections by stripping insulation from wire ends, twisting and soldering them together, and covering them with friction tape. Mounts poles and connects transformers and leads to buildings.

Tools and equipment used include pliers, wrenches, screw drivers, brace and bit, poles, transformers, insulators, wire, soldering iron, safety belt, and pole climbers.

Must have knowledge of electricity and the tools and equipment used in electrical construction work.

MILITARY OCCUPATIONAL CLASSIFICATION OF ENLISTED PERSONNEL

SUGGESTED SUBSTITUTES

078 Electrician
238 Lineman, Telephone and Telegraph

POWERMAN (166)

Power Plant Installer

Installs, operates, adjusts, and repairs Army power plant equipment composed of internal combustion engines, electric generators, and accessories employed to supply power for uses such as lighting, telephone, telegraph, radio or construction machinery.

Locates, diagnoses, and clears trouble. Makes adjustments, repairs, replacements and substitutions on equipment and parts such as electric motors, generators, circuit breakers, rectifiers, wiring, brushes, commutators, storage batteries, Diesel and gasoline internal combustion engines, valves, ignition systems, cylinder heads, carburetors, fan belts, and bearings.

Uses electrician's and automobile mechanic's tools.

Must have knowledge of a-c and d-c principles of electricity. Must be able to read and trace circuit diagrams. Must be familiar with the use of block and tackle and other rigging procedures used to lift, move and place heavy objects.

LITHOGRAPHIC PRESSMAN (167)

Operates a rotary lithographic press in the production of military maps.

Sets up and adjusts lithographic plates to insure accurate register. Places water and ink in respective feed fountains and paper in feeder. Starts machine and adjusts ink, water, paper feed and plate to obtain clear copies of printed material. Cleans and oils machine and makes minor adjustments to press.

May grain plates to remove old image. May prepare plates, including sensitizing plates and burning image into plate.

PRINTER (168)

Casting Machine Operator
Hot Press Operator
Linotype Operator
Monotype Operator

Makes up standard and special printing forms in connection with the production of military publications.

Measures sample of copy with line gauge and sets stick to desired length. Selects type from compartments in type case and sets type in lines in stick. Slides type from stick into galley and inserts

leads. Arranges lines of type, cuts, and spacers in galleys. Makes proof of set-up, corrects set-up, and forwards corrected set-up to press.

May operate automatic machine for making metal slugs of lines of type. May operate linotype, monotype, or casting machine. May operate hot press to make impressions.

Must know standard type style and printed page make-up.

JOB PRESSMAN (169)

Makes ready and tends a printing press.

Inserts form in bed of press and tightens locking attachment. Puts ink into fountain and adjusts rollers. Places stacks of paper in feed tray and adjusts height of tray. Starts press, adjusts paper feed, and regulates ink flow. Removes printed sheets from discharge tray. Lubricates and makes minor adjustments to press.

ENGINEERING AIDE (DESIGNATED FIELD) (170)

Assists in performing technical work in the field indicated involving the development of apparatus, measurement of phenomena, and the collection and transposition of data incident to research in and development of Army matériel.

To be used only in overhead installations such as laboratories, proving grounds, and experimental stations, and not in units represented by Tables of Organization unless approved by The Adjutant General's Department.

Types of Designated Fields:

Aerial Bombs
Aerodynamics
Aircraft Engines
Ammunition
Antiaircraft Artillery
Armor
Artillery
Automotive
Aviation Armament
Ballistics
Electrical Engineering
Electronics
Mechanical Engineering
Mobile Artillery
Optics
Photography (Scientific)
Radio
Radiographic Engineering, such as X-ray
Railway Artillery
Rocket
Seacoast Artillery
Small Arms

SPECIFICATIONS FOR MILITARY OCCUPATIONAL SPECIALTIES

BANDSMAN, OBOE (175)

Plays an oboe in a military band.

Reads music and plays instrument while marching in military formation.

Should be familiar with military marches and selections used in Army bands.

BANDSMAN, BASSOON (176)

Plays a bassoon in a military band.

Reads music and plays instrument while marching in military formation.

Should be familiar with military marches and selections used in Army bands.

SIGNAL MECHANIC, RAILWAY (181)

Railway Signal Supervisor

Installs, repairs, and maintains signal equipment incident to the operation of military railway systems.

Locates, erects, repairs, and tests signal equipment along railroad route such as lamps, lanterns, oscillating arms, crossing bells, and switch indicators. Tests circuits connected to signals. Repairs and installs new signals. Installs and maintains insulated rail joints. Adjusts switches and switch boxes. Repairs interlocking towers. Checks batteries, refilling with water or installing new ones. Cleans signal lamps and lenses.

Equipment includes handsaw, knife, pliers, scissors, screw drivers, files, splicing clamp, wire splices, soldering irons, blow torch, and pole climbing aids such as safety belt and climbing irons.

Must be familiar with rules and regulations governing operation of military railways. Must be familiar with principles of railway signal systems including manually operated, automatic, semiautomatic, and fixed signals. Should be able to read blueprints.

SUGGESTED SUBSTITUTES

078 Electrician

238 Lineman, Telephone and Telegraph

304 Electric Motor Repairman

HIGH VOLTAGE LINEMAN (182)

Erects, maintains, and repairs high voltage (6,600 to 230,000 volts) catenary systems used for transmission of power in operation of military electric railway systems.

Locates high voltage lines. Erects poles. Climbs poles, using climbing tools and aids. Strings wires and ties. Provides static protection and sets up guys and braces. Makes branch connections and connects transformers and leads.

Tools and equipment includes climbing irons, safety belt, soldering iron, solder, pliers, screw

driver, wrenches, hammer, hack saw, insulating and friction tape, earth borer, and pole jack.

Must be familiar with standard operating rules and regulations governing military railway electric transmission systems. Should understand principles of rigging.

SUGGESTED SUBSTITUTES

165 Lineman, Power

238 Lineman, Tp and Tg

281 Third Rail Repairman

401 High Voltage Cable Splicer

SUBSTATION OPERATOR (184)

Operates a substation switchboard, by automatic or manually controlled apparatus, to regulate the flow of electric current through transmission lines.

Operates switches, circuit breakers, converters and stepdown devices to regulate amount and type of current transmitted to trolley systems or third rails. Checks ammeters to determine amount of current consumed.

Must be familiar with standard operating rules and regulations governing military railway or other electric power transmission systems. Must have knowledge of system of light signals used to indicate opening and closing of high voltage switches or breakers.

SUGGESTED SUBSTITUTES

078 Electrician

092 Generator Switchboard Operator

258 Substation Electrician

RAILWAY SIGNAL OPERATOR (185)

Railway Towerman

Operates track switches and railway signals from a signal tower to control movements of military railway trains.

Manipulates levers which control railroad traffic in a railroad yard or at switching points, following train schedules, special orders, and safety regulations. Operates light and combination types of wigwags, crossing bells, and switch indicators. Uses telephone to transmit and receive messages and orders.

Must be familiar with principles of military railway signaling including manually operated, automatic, semiautomatic, and fixed signals. Must have knowledge of rules and regulations governing operation of military railways.

REPEATERMAN, TELEPHONE (187)

Installs, adjusts and maintains repeater and carrier equipment used in a military long lines wire communication system.

MILITARY OCCUPATIONAL CLASSIFICATION OF ENLISTED PERSONNEL

Assembles and installs repeater and carrier units in accordance with circuit and lay-out diagrams. Tests circuits and equipment for faulty operation. Makes various types of tests such as measurements of transmission gains or losses and line resistances. Makes operating adjustments on repeater and carrier units to produce proper gains, levels, balances, and equalization as pertain to amplified signals and creation of additional communication channels. Locates, diagnoses, and clears trouble by making necessary repairs (including improvisations), replacements, or substitutions.

Uses electrician's small hand tools and test instruments.

Must have knowledge of more common types of telephone circuits and be able to read and interpret circuit drawings. Must understand theory of repeater and carrier systems.

DUTY SOLDIER II (188)

Axman, Surveying
Construction Laborer
Construction Worker (AAF)
Earth-Boring Machine Operator
Fork Lift Operator
Highway Maintenance Man
Jackhammer Operator
Warehouseman

This is a broad classification covering enlisted men, who, under supervision, perform various heavy laboring duties in connection with construction and demolitions work, loading and unloading of supplies, or other duty involving physical strength and some degree of skill and responsibility.

Digs holes and ditches, chops trees, saws wood, mixes and pours concrete. Grades roads and prepares subgrades. Installs building equipment. Razes old structures, salvages usable material and removes debris. Uses such hand tools as pick, shovel, ax, jackhammer, crowbars and wrenches.

Carries heavy materials. Stacks or otherwise stores military supplies and equipment in warehouses or on docks. Loads and unloads trucks, freight cars, or dock facilities. Moves materials by use of monorail hoists, tow trucks, fork lifts or other mechanical devices.

Must be physically strong, and capable of prolonged heavy labor.

This classification and specification serial number will be assigned enlisted men who perform such duties regularly.

RIGGER (189)

Performs all types of general rigging work on military construction, manufacturing, shipping, reclamation, and other activities.

Raises and moves heavy equipment, using derricks, cranes, gin poles, A-frames, cableways, and chain blocks. Sets up, braces, and rigs hoisting equipment, splices rope or steel cable, and reeves and runs rope and guy wire.

Uses such equipment as rope, steel cable, chains, hooks, snatch blocks, pulleys, ax, sledge, wrenches, knife, and other small tools.

Must be able to climb. Must know knots, splices, correct method of moving heavy objects, and safety precautions to be followed in moving heavy equipment.

SUGGESTED SUBSTITUTE

100 Structural Steel Worker

RODMAN AND CHAINMAN, SURVEYING (191)

Works as a member of a field survey party engaged in the collection of data concerning terrain features and topographical measurements.

Holds a sight rod, level rod, or a stadia rod so that location lines, elevations of stations along the line, and approximate distances between stations can be determined. Takes linear measurements by means of steel tape. Carries equipment used by survey party such as level, sight and stadia rods, stakes, transits, and steel measuring tape. Clears right-of-way in advance of survey party by removing brush, trees, branches, and other obstacles, using ax, brush-hook, or bolo knife.

SADDLE AND HARNESS MAKER (192)

Repairs all harness, leather, and canvas equipment of an organization which employs animals for transport.

Lays out, cuts, and fits leather parts, using leather cutting hand tools and a splitting machine designed to cut leather into various thicknesses. Sews leather by hand or uses lock-stitch sewing machine. Makes a variety of small leather parts for replacement on harness, saddles, bridles, and other equipment. Repairs breaks in straps and harness by skiving, lapping together, and securing the joint by sewing parallel to the edges. Replaces such hardware held by leather binding such as hasps, rings, and snaps by sewing or riveting.

Uses such tools as saddler's clamp, leather splitting machine, screw driver, punch riveting hammer, punches, rivet-cutting nippers, shears, sharpening stone, draw gauge, dividers, pliers, riveting anvil, slicker, thimbles, needles, pegging awls, saddler's anvil, and a steel slicker for smoothing leather.

Must understand properties of leather including methods of cleaning, softening, preserving, and oiling.

SPECIFICATIONS FOR MILITARY OCCUPATIONAL SPECIALTIES

SUGGESTED SUBSTITUTES

204 Shoe Repairman
609 Leather and Canvas Worker

SALVAGE TECHNICIAN (194)

Foreman, Salvage
Salvage Inspector
Salvage Man
Salvage NCO
Superintendent, Classifier
Superintendent, Waste Disposal

Assists in the collection, removal, classification, and disposition of salvageable material and equipment.

Classifies salvage with respect to the supply service originally issuing each item of equipment. Determines salvage value, and separates salvage into repairable and non-repairable, critical, and noncritical, ferrous and nonferrous materials.

May disassemble salvage, using such tools as saws, hammers, wrecking bars, and acetylene burners. May pack, crate, or bale salvage for shipment to repair units or depots. May weigh salvage and stack it in bins. May assist in the disposal of waste.

Should understand physical and chemical properties of metals and other materials. Should know how to destroy salvage or otherwise render it useless to the enemy. Should be familiar with decontaminating procedures. Should be able to recognize and neutralize booby traps.

SANITARY TECHNICIAN (196)

Supervises and assists in construction of regulation latrines, soakage and garbage pits, incinerators, and showers, and assists in the maintenance of adequate sanitation and hygienic measures to preserve health and prevent disease.

Supervises or assists in the construction of latrines, digging of trenches and pits with pick, shovel, and ditching blade; building of incinerators with buck, stone, mortar, or other materials; and construction of wooden supports for showers. Inspects buildings, field kitchens and surrounding areas to insure compliance with sanitary standards and notes conditions such as adequate screening, proper disposal of waste, cleanliness of kitchen, field water purification and equipment, mess halls, mess personnel, insect and vermin control and general cleanliness of ramp area. Makes surveys for mosquito control, identifying species and locating breeding places, and supervises digging of drainage ditches and spraying and oiling of streams and pools. Sterilizes water by hanging a Lyster bag from a limb or tripod of poles, filling bag with water, and adding standard proportion of chlorine compounds.

May perform other tasks such as conducting insect and vermin control surveys and supervising mixing of insecticides and fumigation of infested areas or buildings.

Must have working knowledge of public health measures such as insect and rodent control, waste disposal, and water purification. Should be able to identify common species of mosquito and take proper steps for elimination.

SUBMARINE CABLE STATION TECHNICIAN (197)

Diagnoses faults in relays, automatic controls, distributors, reperforators and other components used in electronic submarine equipment, multiplex equipment and automatic printers, by using precision and other hand tools to determine source of mechanical malfunctioning, in order to make necessary repairs or adjustments.

Installs, tests and repairs submarine cable terminal equipment.

Conducts trouble location tests on submarine cables.

Must have a knowledge of the theory of vacuum tube amplifiers, wave shaping equipment and power supply equipment.

SECTION HAND, RAILWAY (199)

Section Foreman, Railway

Excavates and grades railroad right-of-way and lays, levels, and tamps railroad tracks.

Preparatory to laying track, levels right-of-way, using pick and shovel, and builds up low places by filling with dirt. Lays ties and rails, setting out cross ties at right angles to rails. Spaces cross ties at regular intervals. Drives spikes into ties to hold rails in position. Lays sliding plates and switches. Levels and tamps tracks.

Equipment includes rail sections and ties, switches, jacks, claws, track gauges and levels, sliding plates, bulldozers, and motor railway cars.

As foreman, supervises the excavation and grading of railroad right-of-way and the laying, leveling, and tamping of railroad tracks. Preparatory to laying track, supervises excavation and grading work and is responsible for proper drainages, curvatures, grades, and clearances. Supervises track laying operations such as the laying of ties and rails, proper spacing of ties and rails, and installation of switches and sidings. Is responsible for maintenance and repair of tracks, regrading right-of-way, and replacing ties and rails as necessary.

As foreman, must have thorough knowledge of rules and regulations governing operation of military railways. Must be able to work from blueprints. Must be familiar with semaphore signals used by railroads.

MILITARY OCCUPATIONAL CLASSIFICATION OF ENLISTED PERSONNEL

SUGGESTED SUBSTITUTES

059 Foreman, Construction
356 Foreman, Labor

SEWING MACHINE OPERATOR (200)

Operates an electrically-powered or pedal-operated sewing machine to repair damaged clothing or equipment in a fixed or mobile repair unit.

Sews rips and tears, places patches over holes, and sews entire sections into badly damaged articles. Makes minor adjustments to machine.

SHEET METAL WORKER (201)

Automobile Body Repairman Tinsmith
Automobile Radiator Repairman

Fabricates, assembles, installs and repairs sheet metal articles in connection with the repair and maintenance of motor vehicles and mechanical equipment.

Cuts sheet metal, such as aluminum alloys, steel, copper, and zinc, with hand shears, rotary shears, and squaring shears. Bends metal to desired shape, using bar folder, cornice brake, forming rolls, grooving machine, and closing machine. Punches or drills holes for rivets, bolts, and screws with center punch and hammer, hand drill, or drill press. Assembles sheet metal parts, brackets, and hangers. Welds, nails, solders, bolts, rivets, or fits them into units for erection, making attachments, joints and seams. Grinds or files seams, joints, or rough surfaces with grinding wheel or file.

Uses sheet metal worker's tools, such as various kinds of hammers, mallets, stakes, punches, pliers, dividers, rules, metal gauges, and soldering irons.

May mark lay-out on sheet metal according to blueprints or templates, and oral or written specifications. May straighten and aline body frames.

Must know the type of seam or joint best suited for a specific purpose.

SUGGESTED SUBSTITUTE

478 Ship Fitter

CARPENTER, SHIP (202)

Builds and repairs wooden boats, barges, tugs, launches, and other craft and makes repairs on large ships.

Builds wooden frames and foundations to support boats under construction or repair. Lines up and trues keel blocks, sets shores, erects stages, and builds ship's cradles, using carpenter's tools, ax, and adz. Repairs of keel, ribs planking, decks, cabins, masts, gunwales, and bulkheads.

May instruct or supervise seamen in making minor repairs on ships. May supervise a crew of ship's carpenters.

SUGGESTED SUBSTITUTE

050 Carpenter, General

SHOE REPAIRMAN (204)

Foreman, Shoe Repair

Repairs shoes in a fixed or mobile repair unit.

Resoles and reheels shoes. Mends ripped seams, patches holes, cements insoles in place, and replaces counters.

Operates finishing, stitching, sole cutting, skiving, and patching machines, and uses cobblers hand tools to repair shoes.

May make repairs on other leather equipment.

SHOP ENGINEER, RAILWAY (205)

Assistant Shop Superintendent Wreckmaster
Railway Shop Dispatcher

Assigns and coordinates the work of enlisted men in a military railroad repair shop in effecting major repairs to steam, Diesel, gasoline, and electric locomotives, tenders, tank cars, and passenger and freight cars, and is responsible for maintenance of shop facilities and equipment.

Makes initial inspection of repair jobs received and determines extent of repairs necessary. Plans repair operations, considering availability of supplies and materials and relative urgency of jobs on hand. Assigns repair work to shop foremen and supervises, directs, and checks all operations. Major repairs include machining of locomotive and car parts, welding, forging, sand blasting, and car carpentry. Coordinates work to minimize conflicting operations, makes final inspection of completed jobs, and assumes responsibility for quality of all work leaving shops. Approves and directs necessary repairs of shop facilities and equipment and recommends requisition of new equipment and disposal of old equipment. Sets up safety and fire prevention regulations. Supervises removal of railroad wrecks.

Must be able to supervise shop foreman, and be familiar with such shop trades as boilermakers, blacksmiths, locomotive mechanics, railway car mechanics, car carpenters, painters, pipefitters, Diesel mechanics, and electric locomotive repairman. Must have a thorough knowledge of the design, construction, and operation of all types of locomotives.

SUGGESTED SUBSTITUTES

112 Locomotive Mechanic
114 Machinist
342 Master Mechanic

SOUND PROJECTOR REPAIRMAN (206)

Repairs, rebuilds, adjusts, and maintains in service 16-mm or 35-mm sound projectors used in motion picture work.

SPECIFICATIONS FOR MILITARY OCCUPATIONAL SPECIALTIES

Diagnoses faults occurring in sound projection and determines the source in terms of mechanical or electrical malfunctioning. Oils, cleans, and replaces mechanical parts and makes adjustments for smoothness of operation. Inspects electrical wiring and makes repairs and adjustments.

Uses such testing equipment as ohmmeters and voltmeters, and electrician's and mechanic's small hand tools.

May make small operating parts for sound projector, using precision tools.

Should have knowledge of construction and operation of sound projecting equipment and understand coordination of sound and picture projection.

SUGGESTED SUBSTITUTE

042 Camera Repairman
207 Sound Recording Equipment Maintenance Man
208 Sound Recorder, Motion Picture
648 Radio Repairman

SOUND RECORDING EQUIPMENT MAINTENANCE MAN (207)

Repairs, adjusts, and maintains sound recording equipment used in connection with the production of motion pictures for training, historical, or publicity purposes.

Locates malfunctions, using such portable testing equipment as an ohmmeter, voltmeter, and oscillograph. Repairs such equipment as microphones, microphone amplifiers, sound mixing panels, main amplifiers, attenuators, and recorders.

Uses gauges, wrenches, screw drivers, calipers, micrometers, soldering iron, and available precision tools.

Should have knowledge of the principles of electricity as they apply to the transmission, recording, and reproduction of sound. Must be able to read wiring diagrams.

SUGGESTED SUBSTITUTE

415 Electrician, Sound Transmission

SOUND RECORDER, MOTION PICTURE (208)

Boom Man Film Recorder, Motion Picture, Sound

Operates a motion picture sound recording unit which translates sound impulses picked up by microphones into light impulses and records them on motion picture film in connection with the production of motion pictures for historical, intelligence, or training purposes.

Adjusts and prepares recorder for operation. Checks condition of amplifier and noise reducer by use of ammeter and voltmeter. Loads film into recorder and threads it through driving sprocket, rollers, and exposure drum in the recording head.

Turns on motor and exposure lamp. Sets filament current to a predetermined amperage by turning a rheostat knob and reading an ammeter. Sets galvanometer mirror and noise reduction shutters to their correct neutral starting position by turning knots until edges of image on monitoring screen coincide with lines marked on screen. Sets volume controls on amplifiers. Watches monitoring screen while a recording is being made and listens to recording through earphones. Notes readings of frequency indicator, tachometer, and lamp current ammeter to see that machine is operating properly. Lubricates equipment. Makes minor repairs, such as replacing tubes.

May set up microphones, connect wires between microphones and the sound recording equipment, and drive a sound truck.

SUGGESTED SUBSTITUTE

415 Electrician, Sound Transmission

SUBMARINE CABLE STATION OPERATOR (209)

Receives cable messages by sound and siphon recorder tape at a speed of 25 five-letter code groups per minute and transmitting at 20 words per minute under normal operating conditions.

Records messages with typewriter; keeps station logs and message files.

Operates and makes minor adjustments of siphon recording equipment, teletype printers and submarine terminal equipment for efficient operation.

STENOGRAPHER (213)

Court Reporter Medical Secretary

Takes dictation in shorthand of correspondence, branch proceedings, hearings, reports, and other military matters and transcribes notes using a standard typewriter.

May perform additional office duties such as filing, indexing, and record keeping. May use stenotype machine to record dictation. May operate other office machines.

Should be able to take dictation at a minimum rate of 75 words per minute and type at a minimum rate of 35 words per minute.

Must understand simple grammatical construction and composition.

Civilian experience or training as a stenographer essential.

STONEMASON (214)

Builds and repairs stone walls, drains, incinerators, and similar structures.

Trims, faces, cuts, and surfaces stones to proper size, shape, or finish, using mason's tools such as hammer, chisel, and pitching tool. Spreads binding

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mortar and places stones in approximate position by hand. Moves stones to final position using hammer, mallet, crow or pinch bar. Aligns stones with square, level, and plumb bob.

May drill holes in stone for insertion of metal ties and anchors, using electric or hand drill.

Should be able to work from blueprints or sketches.

Civilian experience as stonemason or bricklayer essential.

SUGGESTED SUBSTITUTE

034 Bricklayer

PUMP OPERATOR (220)

Pump Station Operator Pumpman, Water
Pumpman, Oil

Operates and maintains electric, gasoline, or Diesel engine-driven pumps.

Starts pumps and increases or decreases force of pumping as operating conditions warrant. Pumps liquids from one process to another, from storage tanks to processing equipment, or very low levels to higher levels for storage or processing.

Cleans, oils, and greases bearings of engine and pump. Replaces packing in boxes, adjusts controllers, cleans gear boxes, tightens connections, cleans commutators, and replaces brushes and worn or damaged parts, including spark plugs or injectors.

SUGGESTED SUBSTITUTES

014 Automotive Mechanic (Second Echelon)

081 Engineman, Operating

727 Water Supply Technician

SURVEYOR (227)

Supervises a survey party engaged in determining data pertaining to points, elevations, lines, areas, and land profiles in connection with such activities as the preparation of maps, establishment of artillery base lines, and construction of railway spurs, roads, bridges, and buildings.

Uses transit, alidade, level, stadia rod, aneroid compass, and other surveying instruments to obtain the precise elevation or location of a point. Keeps complete field notes. Make algebraic and trigonometric calculations, using logarithms, slide rules, and engineering tables. Adjusts surveying instruments to keep them accurate.

May map a maneuver area, airdrome installation, camp site area, or cemetery. May align and stake out roads and sidewalks. May verify aerial photography surveys and may draw maps.

SUGGESTED SUBSTITUTES

228 Survey and Instrument Man

230 Surveyor, Topographic

670 Master Gunner, Coast Artillery

SURVEY AND INSTRUMENT MAN (228)

Computer

Sets up and operates surveying and fire control instruments to locate gun positions, observation posts, or to conduct survey operations relative to erection of track, buildings, drainage, and water systems.

Measures vertical and horizontal angles by making instrument readings, using transit, aiming circle, or similar instrument. Determines distances by instrument reading and calculations or by actual measurement with a steel tape. Determines elevation by instrument reading and calculations. Keeps field notes, entering readings of angles and distances as they are observed. Performs routine calculations, using slide rule, or makes arithmetic computations to obtain the azimuth, military grid coordinates, or elevation of points by the solution of right or oblique triangles by the substitution of values. Makes sketches of a landmark or particular part of terrain when required. Uses plane table, alidade, compass, protractor, and scales to plot various surveyed positions on a military map or chart. Performs additional drafting and plane table work such as making overlays, resections, or restitutions, to record results of surveyed positions on maps or charts.

Uses such instruments as transit, aiming circle, range finder, BC scope, prismatic compass, battery commander's telescope, open sight alidade, protractor, scales, slide rule, plane table, and steel tape.

SUGGESTED SUBSTITUTE

645 Fire Control Instrument Operator, FA

MEDICAL EQUIPMENT MAINTENANCE TECHNICIAN (229)

Repairs and maintains medical equipment, such as X-ray, physiotherapy, operating room, and laboratory equipment, in a military medical installation.

Examines and tests equipment to locate electrical or mechanical defects. Dismantles equipment and repairs and replaces parts, using mechanic's and electrician's hand tools. Makes adjustments and reassembles unit.

May act as technical advisor in the installation, operation, and maintenance of equipment.

SPECIFICATIONS FOR MILITARY OCCUPATIONAL SPECIALTIES

SUGGESTED SUBSTITUTES

- 098 Instrument Repairman, Nonelectrical
- 322 Refrigeration Mechanic
- 338 Instrument Repairman, Electrical

SURVEYOR, TOPOGRAPHIC (230)

Surveyor, Party Chief

Sets up and operates such surveyor's instruments as transit, level, stadia, astralabe, and theodolite to establish angles, distances, geographic positions and elevations to locate various points on the terrain.

Keeps field notes of instrument observations. Computes and adjusts traverse, azimuths, elevations, distances, and coordinates. Computes azimuth, position, latitude, and longitude from solar and stellar observations. Computes grid coordinates from latitude and longitude.

May supervise a survey party. May do plane table work.

Must be able to assemble and interpret aerial photographs.

SUGGESTED SUBSTITUTES

- 227 Surveyor
- 228 Survey and Instrument Man
- 670 Master Gunner, Coast Artillery

SWITCHBOARD INSTALLER-REPAIRMAN, MANUAL (232)

Installs and tests switching and auxiliary equipment for manual telephone exchanges used in an Army post, camp, station, or larger headquarters.

Installs iron work, including cable racks, equipment distributing frames, and power panels. Places, fans out, and solders cables on terminal strips, and places and removes cross connections. Adjusts, tests, and repairs relays, lamps, jacks, cords, plugs, and other equipment necessary for the proper functioning of a manual telephone exchange.

SUGGESTED SUBSTITUTES

- 095 Central Officer Repairman
- 097 Installer-Repairman, Telephone and Telegraph

TAILOR (234)

Foreman, Clothing Repair

Repairs worn or damaged clothing, sewing by hand and using a foot-powered or electrically driven sewing machine, darning, and button machine.

Cuts cloth, using patterns and replaces worn or damaged sections of clothing. Repairs all types of Army clothing, such as shirts, caps, pants, blouses, field jackets, and overcoats.

SUGGESTED SUBSTITUTE

- 200 Sewing Machine Operator

TEAMSTER (235)

Wagoner

Drives a team of horses or mules consisting of one or more pairs in draft.

Harnesses and unharnesses team. Checks and adjusts harness during the march to prevent occurrence of sores or skin abrasions. Checks cargo adjustment and condition of vehicle. Waters, feeds, and cleans animals. Removes animals to cover during emplacement and remains with them.

Must be able to care for animals under field or post conditions. Must be able to assemble, disassemble, adjust, and clean harness and related equipment. Must understand arm signals which indicate various movements in maneuvering horse-drawn vehicles.

SUGGESTED SUBSTITUTE

- 563 Horse Artillery Driver

TELEGRAPH OPERATOR (236)

Station Agent, Railway

Transmits and receives messages in International Morse code, using telegraphic equipment in an Army organization.

Depresses and releases telegraph key with fingers to send coded messages in a series of dots and dashes. Listens to telegraph buzzer to receive coded messages. Maintains station log, recording time of transmission and receipt of messages, operator's names, and other pertinent data. Performs clerical work incident to operation of telegraph, such as completing various reports and forms. May assist in setting up telegraph switchboard, key, and receiver.

May operate track switches and railway signals from a signal tower to control movements of military railway trains.

Must be able to transmit and receive messages at the minimum rate of 13 standard words per minute.

SUGGESTED SUBSTITUTES

- 069 Dispatcher, Railway
- 740 Radio Operator, Intermediate Speed
- 766 Radio Operator, High Speed, Manual
- 776 Radio Operator, Low Speed

TELETYPE OPERATOR (237)

Telegraph Printer Operator

Teletype Switchboard Operator

Operates a teletype, simplex, or other kind of telegraphic typewriter for transmission and reception of communications.

Keeps a log in which a record of all messages received and transmitted is maintained. Operates

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equipment using perforated tape for transmission and reception.

Must be able to operate teletype equipment at a minimum speed of 20 words per minute. Must be familiar with Army codes, phonetic alphabet, Army wire and radio teletypewriter procedures, Army method of hand printing, and safeguarding cryptographic and transmission security.

SUGGESTED SUBSTITUTES

213 Stenographer
405 Clerk-Typist

LINEMAN, TELEPHONE AND TELEGRAPH (238)

Installer-Repairman, Railway

Installs, repairs, and maintains permanent and semipermanent military telephone and telegraph wire systems.

Locates sites for telephone and telegraph poles and wires. Erects poles. Climbs poles, using climbing tools and aids. Strings wires, wiresplices, and ties. Provides static protection and sets up guys and braces. Corrects causes of short circuits and splices broken lines. Locates, erects, and maintains field telephones and switchboards. Operates heavy line construction equipment such as earth-boring machine, pole jacks, derricks and winches.

Equipment includes pole climbing irons and safety belt, wire reel, test set consisting of hand phone, hand cranked magneto, and dry cells, and electrician's hand tools.

Must be familiar with the standard operating rules and regulations governing wire communication systems of organization to which assigned. Should be able to read blueprints and maps.

SUGGESTED SUBSTITUTES

165 Lineman, Power
641 Field-Lineman

TELETYPE MECHANIC (239)

Installs, inspects, maintains, and repairs teletype machines, including receiving, transmitting, relay units, and auxiliary equipment.

Test-operates machine to observe its functioning and determine necessary adjustments or repairs. Measures spring tensions in various parts of the equipment with finely calibrated scales to correct tensions in accordance with prescribed standards. Measures the separation of electrical contact points with small metal gauges to adjust same. Cleans and lubricates entire machine using oil and brush. Traces electrical faults, such as broken or shorted circuits, with voltmeter and refers to wiring diagrams in testing continuity and resistances. Re-

places any of a large variety of parts when worn or broken, using screw drivers, pliers, and special teletype tools.

May repair, service, and maintain typewriters.

Must have knowledge of circuits and equipment commonly employed for telegraphic transmission.

TIRE REBUILDER (240)

Performs various tasks in connection with vulcanizing, retreading and recapping of pneumatic tires, and repair of inner tubes in a tire repair shop.

Removes tread from tire using buffing wheel and rotating wire brush. Rebuilds treads by cementing layers of rubber tread stock to fabric and rolling with hand roller to secure good adhesion. Molds new treads on tire by placing tire in mold and heating to proper temperature for curing raw rubber.

May vulcanize breaks and tears in tires, using hand knife, scissors, hand roller, and vulcanizer.

Must have knowledge of rubber compounds and retread requirements for various size and special duty tires.

TOOLROOM KEEPER (242)

Performs various duties in connection with the maintenance, issuance, and storage of tools in toolrooms of military repair shops.

Issues tools to workers on memorandum receipt, or daily charge ticket. Maintains stock cards showing stock number, quantity credited, and distribution among shop personnel. Makes up statement of charges against individuals for items lost or damaged. Arranges tools systematically in bins or rack compartments. Periodically inspects tools and prepares list of tools needing repairs. Makes minor repairs to tools such as grinding of drill bits, sharpening axes, saws, and knives, and replacing hammer handles.

Must be familiar with supply room procedure and regulations governing accountability, responsibility, and maintenance of stock record accounts. Must be familiar with nomenclature of tools and shop procedure.

SUGGESTED SUBSTITUTES

348 Parts Clerk, Automotive
457 Shop Clerk
835 Supply Clerk
848 Parts Clerk, Armament

GEODETC COMPUTER (243)

Topographical Computer

Performs mathematical computations, using logarithmic and natural function tables in the construction of topographical maps or charts.

SPECIFICATIONS FOR MILITARY OCCUPATIONAL SPECIALTIES

Calculates latitude, longitude, angles and areas from field notes made by survey parties. Computes positions from triangulation or primary traverse, stellar or solar observation notes. Computes intersections, point locations and coordinates.

Equipment used includes drafting instruments and calculating machines.

Must be able to compute azimuth and position from solar or stellar observations. Must be able to make involved arithmetic and algebraic computations. Must have a general knowledge of drafting, including mechanical drawing, geometric constructions, lettering and conventional symbols used in topography and surveying.

SUGGESTED SUBSTITUTES

- 076 Draftsman, Topographic
- 227 Surveyor
- 228 Survey and Instrument Man
- 230 Surveyor, Topographic
- 1076 Observation Draftsman

CARGO GEAR MECHANIC (246)

Stores and issues all gear required by a unit to load and unload ships.

Receives, stores, issues and maintains records of cargo gear such as tow motors, fork lifts, blocks, slings, fids, marlin spikes, pallets, hooks, and ropes used to load and unload ships. Sharpens tools, cleans equipment and keeps gear in good repair by replacing and refitting parts.

May supervise a group of men in repairing cargo gear.

SUGGESTED SUBSTITUTES

- 014 Automotive Mechanic (Second Echelon)
- 242 Toolroom Keeper

VETERINARY TECHNICIAN (250)

Surgical Technician, Veterinary Veterinary NCO

Cares for and assists in the treatment of sick or wounded animals.

Cleanses, treats, and applies dressings as directed by veterinary officers. Prepares animals for operations and sterilizes instruments. Prepares veterinary and clinical records, and sick and wounded report.

May administer anesthetics under supervision of veterinary officers. May supervise stablemen in the care of sick and wounded animals. May assist in the inspection of forage for animals. May assist in the inspection of meat and dairy products.

Should be thoroughly familiar with principle of animal sanitation, and be able to observe and diagnose symptoms of diseases of animals.

FOREMAN, WAREHOUSE (252)

Supervises the receipt, storage, and issuance of military supplies and equipment in a warehouse.

Supervises the receiving, handling, and moving of supplies and equipment and the preparation and maintenance of stock records. Supervises the methods of storing used to protect the supplies and equipment, checking the blocking, bracing, tiering, and general distribution of supplies in the warehouse. Supervises the issuance of supplies and equipment from the warehouse. Makes inventory checks, anticipates shortages, and prepares requisitions to maintain an adequate supply of material. Assigns enlisted personnel to duties.

Must know Army regulations governing the receipt, storage, and issuance of military property. Must be able to plan the distribution of supplies and equipment in the warehouse and on loading docks so as to avoid confusion.

WELDER, COMBINATION (256)

Burner, Acetylene Welder, Electric Arc
Welder, Acetylene

Fuzes metal parts to fabricate metal articles and repairs broken or cracked metal objects by means of electric-welding or acetylene-welding apparatus in an Army repair or machine shop.

Places parts to be joined or object to be repaired on a flat surface and wires, clamps, or otherwise holds objects in position. Assembles welding apparatus and applies heat to metal until it melts, at the same time applying a metal rod to the molten area to supply excess metal needed to form weld.

May preheat parts to be welded with torch before welding to obtain better weld. May heat treat after welding.

Equipment includes acetylene torch, cutting assembly, and set of tips, hand-operated lever shears, electrically powered grinder and burnishing machines, hand-operated bead former, electrically powered tubing saw, combination rule and set, dividers, wooden mallet, wrenches, and electric drill. Material includes welding and soldering fluxes, asbestos sheeting, angle iron, and aluminum, bronze, cast iron, steel, silver soldering, and lead soldering rods.

Must know properties and identity of metals. Must be able to read blueprints. Must be able to plan and construct jigs for holding parts together during welding process.

SUGGESTED SUBSTITUTES

- 030 Boilermaker
- 201 Sheet Metal Worker

SUBSTATION ELECTRICIAN (258)

Electrician, Power Plant

Installs, maintains and repairs electrical substa-

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tion equipment used to control distribution of electric current.

Installs and maintains substation switchboards. Repairs, adjusts, and calibrates electric high voltage current relays. Repairs and adjusts circuit breakers, regulators, transformers, protective and controlling apparatus and sectionalizing switches.

Uses electrician's tools.

Must be familiar with standard operating rules and regulations governing military railway electric transmission systems. Should have thorough knowledge of substation operation from mechanical point of view.

SUGGESTED SUBSTITUTES

078 Electrician

184 Substation Operator

WELL DRILLER (259)

Sets up and operates well drilling machinery to obtain water or oil in the field.

Sets up well drilling rig, hoists casing in position over well, lowers drill stem into casing, bolts drive clamp around drill stem, and manipulates levers to control drill and drive casings. Threads additional casings and drives them into well as hole is deepened.

May supervise a crew of well drillers.

SUGGESTED SUBSTITUTE

189 Rigger

WIRE CHIEF, TELEPHONE AND TELEGRAPH (261)

Chief Installer

Telephone Inspector

Wire Technician, Telephone and Telegraph (AAF)

Supervises the installations, testing, repair, and general maintenance of central office and other telephone equipment in a military communications system.

Supervises the installation of switchboards, telephones and auxiliary equipment, and the operation of the switchboards. Performs tests to locate line troubles such as cross, ground or short circuits using Wheatstone bridge or voltmeter. Directs repairmen in elimination of troubles and repair of equipment. Maintains records pertaining to cables, terminal boxes, central office power equipment and maps lay-out of telephone system. Instructs personnel in installation and maintenance of equipment. Directs and coordinates work of subordinates by assigning tasks, directing procedures and issuing instructions.

Must be familiar with installation and operation of all central office equipment.

SUGGESTED SUBSTITUTES

095 Central Office Repairman

097 Installer-Repairman, Telephone and Telegraph

115 Automatic Telephone System Maintenance Man

OCCUPATIONAL COUNSELOR (262)

Assists in aiding soldiers who are about to be discharged in finding proper employment, or in obtaining additional education or training; or in determining proper military assignments for soldiers returned from combat.

Studies each case to determine suitable occupations either in the Army or in civilian life which soldier might pursue, taking into consideration such factors as handicaps or limitations, training, experience, interest, and environmental conditions of assignment or employment. Administers or prescribes tests to assist in determining capacity, emotional stability, and occupational aptitude, and notes interests of individuals as revealed by such activities as hobbies, books read, or participation in sports. Evaluates results of tests and other data, analyzes soldier's "Military Occupational Specialties" for characteristics convertible to other military or civilian work. Takes into consideration handicaps or limitations, and makes recommendations for assignment or employment, or for additional training or education.

May refer soldier to proper authorities within Army for further consultation.

Should have a thorough knowledge of occupations, essential worker characteristics, and opportunities for employment. Experience in psychological examining, vocational guidance, or employment counseling or equivalent training and experience very desirable.

SUGGESTED SUBSTITUTES

275 Classification Specialist

289 Personnel Consultant Assistant

290 Personnel Technician

PSYCHIATRIC SOCIAL WORKER (263)

Conducts interviews with maladjusted soldiers to secure clinical material to aid in diagnosis and treatment of the difficulty.

Prepares case histories for psychiatrist, emphasizing the interplay of physical, intellectual, conscious, and unconscious factors as they pertain to patient's difficulty in order to provide a basis for differential treatment approach. Under the direction of the psychiatrist, assists in therapy work with patients.

May obtain additional information on soldier's social history from Red Cross or other agencies to aid in understanding present difficulty and to assist in post-discharge planning.

SPECIFICATIONS FOR MILITARY OCCUPATIONAL SPECIALTIES

Should have graduate school training and experience in psychiatric social work or equivalent training and experience.

SUGGESTED SUBSTITUTES

- 262 Occupational Counselor
- 275 Classification Specialist
- 289 Personnel Consultant Assistant
- 290 Personnel Technician

X-RAY TECHNICIAN (264)

Radiology Technician (AAF)

Takes X-ray photographs of parts of the human body with X-ray machines for use in diagnosing and treating injuries and disease.

Positions patient under X-ray according to part of body exposed, and depending upon thickness of bones and tissue, determines proper voltage and amperage required, distance of patient from machine, and length of exposure. Manipulates levers which control duration and intensity of exposure. Develops films in photographic darkroom, preparing solutions and immersing negative, in succession, in developing tank, rinse water, fixing tank, and in wash solution. Makes minor repairs to X-ray machine such as replacing fuses, switches, circuit breakers, wires and X-ray tubes.

Must have knowledge of anatomy, X-ray techniques, and darkroom methods.

SUGGESTED SUBSTITUTES

- 409 Medical Technician
- 657 Medical Aidman

YARDMASTER (265)

Assistant Trainmaster Yard Foreman

Supervises the make-up and break-up of trains in a military railroad yard or in over-the-road operations.

Manages and directs train traffic in military railroad yards and in over-the-road runs. Investigates complaints concerning poor train service. Maintains car records and reports.

Must have knowledge of rules and regulations governing operation of military railways.

SUGGESTED SUBSTITUTES

- 047 Traffic Man, Railway
- 058 Conductor, Railway

TRANSLATOR (267)

Translates written material from a foreign language into English and from English into a foreign language.

Makes complete translation of foreign military documents and other material or letters which may have a bearing on military affairs. Gives an exact

statement of the items expressed, or translates English into a foreign language using idiomatic expressions peculiar to the language.

Civilian experience in translating or interpreting foreign languages or equivalent military training required.

SUGGESTED SUBSTITUTES

- 320 Interpreter
- 538 Voice Interceptor (Designated Language)

COOPER (270)

Builds and repairs barrels, buckets, casks, and kegs used in the packing, storing, or shipment of supplies and equipment.

Plugs holes with wood. Repairs leaking stave joints by loosening hoops and forcing flagging between staves, using various hand tools. Replaces broken or cracked staves by loosening hoops, shaping end of inserted stave to fit head of barrel, and tightening hoops. Replaces defective barrel heads of hoops.

SUGGESTED SUBSTITUTE

- 050 Carpenter, General

LONGSHOREMAN (271)

Dock Boss	Header
Hatch Foreman	Stevedore Foreman
Hatch Tender	Walking Boss

As member of crew, loads and unloads military supplies and equipment from ships.

Removes hatch cover and beams by hand or bridle slings and piles cover and beams on deck. Moves cargo in hold and on wharf by hand, conveyor, hand truck, and platform truck. Uses slings, pallets, hooks, ropes, and other gear to lift draft into or out of hold. Stows cargo in hold, using bracing and dunnage, to protect ship and cargo and to provide air courses for cargo. Uses hand signals to direct winchman in hoisting and lowering platforms, nets, and slings loaded with cargo from dock or hold. Replaces beams and hatch cover upon completion of stowing cargo. Stows bulky cargo on deck using bracing, dunnage, and tarpaulins and lashing cargo securely to deck.

May supervise a crew of longshoremen in cargo handling.

Must know knots, splices, rigging and correct methods of stowing various types of cargo. Must be above average in strength.

SUGGESTED SUBSTITUTE

- 188 Duty Soldier II

KEY PUNCH MACHINE OPERATOR (272)

Operates a manual or electric key punch machine,

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to punch holes in tabulating cards used in recording accounting and statistical data.

Places cards to be punched in machine and sets carriage for perforating operation. Following written copy, punches corresponding numbers or symbols on the machine keyboard, transcribing written information into perforations on tabulating cards.

SUGGESTED SUBSTITUTES

055 Clerk, General

405 Clerk-Typist

WRITER, MILITARY SUBJECTS (274)

Editor

Orientation Specialist

Public Relations Writer

Reporter

Technical Writer

Collects and assembles, and writes material for news releases, technical and field manuals, and bulletins and circulars concerning activities, technical equipment, and methods and operations of a military nature.

Reads, analyzes, revises, rewrites and corrects military manuscripts prior to publication or release through military channels.

May appear before small groups of individuals to explain manuals, bulletins, circulars, and news items.

Should have literary ability combined with a technical background. Must be thoroughly familiar with correct English grammar. Should be familiar with editor's and printer's symbols.

CLASSIFICATION SPECIALIST (275)

Interviews enlisted men to obtain civilian and military job history and other related information to be used for classification and assignment of military personnel.

Obtains and records soldier's personal history, education, aptitudes, interests, hobbies, civilian work history, and military experience. Periodically checks the military occupational specialty and duty status against the qualification card of each man in the organization and ascertains whether military personnel are classified and performing duties commensurate with their military or civilian training.

May administer and grade group tests of intelligence and aptitude and record test data on qualification records. May prepare reports on classification and assignment. May conduct interviews for reclassification and assignment of enlisted personnel.

Must be familiar with all regulations, manuals and procedures pertaining to Army classification and with methods of punching, coding and maintenance of officers' and enlisted men's qualification records. Should be familiar with the requirements of all jobs in the unit to which assigned.

SUGGESTED SUBSTITUTES

262 Occupational Counselor

289 Personnel Consultant Assistant

LEGAL CLERK (279)

Assists Judge Advocates, Legal Officers, Claims Officers, and Legal Assistance Officers in the performance of their duties.

Performs such duties as research in military and civil laws, regulations and other sources of authority; furnishing legal advice in appropriate cases; preparing charges, records of proceedings, orders, opinions, reports, documents, correspondence and other papers required in the conduct of the business of a military legal office; handling the distribution of messages, files, supplies and other matters of office routine.

Civilian experience as a lawyer or law clerk required. Knowledge of typing desirable.

THIRD RAIL REPAIRMAN (281)

Maintains and repairs third rails (550 to 650 d-c voltage) used for transmission of power in operation of military electric railway systems.

Replaces defective rails and connects them for power. Conducts tests to check available power and constructs protection boards along rails. Locates disconnecting switches. Insulates high tension wires. Connects electric feeder cables.

Tools and equipment used include soldering iron, solder, hammer, pliers, screw driver, wrenches, wire, wire splices and insulation, and friction tape.

Must be familiar with standard operating rules and regulations governing military railway electric power transmission systems. Must have knowledge of third rail construction and operation.

SUGGESTED SUBSTITUTES

078 Electrician

181 Signal Mechanic, Railway

OFFICE MACHINE SERVICEMAN (282)

Adjusts, services, and makes repairs to one or more standard types of office machines, such as the adding machine, calculator, multigraph, multilith, mimeograph and typewriter.

Diagnoses the defect by inspection, disassembly, or operation of the machine. Tightens, loosens, sets, and otherwise adjusts gears, guides, pinions, and other parts, using such hand tools as wrenches, pliers, and screw drivers. Removes, repairs, or replaces defective parts. Cleans and lubricates machine.

SUGGESTED SUBSTITUTE

239 Teletype Mechanic

SPECIFICATIONS FOR MILITARY OCCUPATIONAL SPECIALTIES

ATHLETIC INSTRUCTOR (283)

Physical Reconditioning Instructor

Organizes competitions, and instructs military personnel in the rules and playing of sports.

Directs groups in health building exercises and calisthenics. Supervises the conditioning of men in such athletic activities as baseball, basketball, volley ball, and all other sports. Acts as coach or referee in athletic meets.

May direct convalescents in the execution of remedial exercises and physical activities prescribed by medical officers.

CAMERAMAN, ANIMATED MOTION PICTURE (285)

Operates a vertically mounted motion picture animation camera to produce animated motion pictures used in the instruction and training of personnel.

Moves camera to desired position above table top and focuses the lens. Lays basic drawing on table and aligns its perforations with alignment pegs. Lays and aligns celluloids over basic picture and covers with glass. Observes picture through view finder, moves easel, and adjusts camera and diaphragm aperture, until proper alignment, focus, and exposure are obtained. Photographs background, titles, charts, drawings, changing celluloids one at a time to achieve progression of movement. Produces special effects, such as fade-ins, fade-outs, and double exposures, or a combination of effects.

May advise animation artists on short cuts and ways of producing contrasts and other photographic qualities.

Must know the technique used in accomplishing animation of motion pictures. Must understand light and shade graduations on films to advise artists on proper contrasts. Must know film processes.

SUGGESTED SUBSTITUTE

043 Cameraman, Motion Picture

MOTION PICTURE PRODUCTION TECHNICIAN (286)

Assistant Director Motion Picture Technician (AAF)
Assistant Producer

Assists in supervision and coordination of administrative or technical operations of a motion picture unit.

Secures equipment, personnel, and props for production preparing necessary requisitions. Arranges for transportation of crew, actor personnel, and equipment. Prepares shooting schedule, checks consistency of sets, notes camera angles, keeps record of exact properties used on each set, and prepares daily production report. Makes certain all actors

and props are in proper place at the proper time. Assists in rehearsing of scenes.

May direct production, choosing cast, instructing actors in interpretation of parts, planning details of settings and costumes, and supervising shooting of scenes.

Must be familiar with technical problems of motion picture production.

Civilian experience with motion picture company essential.

(In Army Air Forces, this classification will be used to cover motion picture technicians such as film editor, sound transmission man, motion picture cameraman, animation, process background supervisor, or other technical duty.)

SOUND EDITOR, MOTION PICTURE (287)

Sound Cutter

Selects, splices, and edits the sound tracks of a motion picture film in connection with the production of motion pictures for historical, intelligence, and training purposes.

Studies picture to decide what sound effects, music, or background effects are needed to make the picture effective. Selects from library sounds to be used. Runs picture on moviola and marks exact spot where sounds are to be utilized. Makes up cue sheet to indicate sequence of sounds he has put in, what track they are on, and footage of movie at point of insertion. Runs picture on synchronizing machines, stopping at marked footage and splicing in sound effects at same point on as many sound tracks as are required. Runs film and sound tracks in recording room to note discordances between sounds and film, making necessary corrections.

Must be thoroughly familiar with problems of motion picture sound editing, being able to synchronize various sound effects to prevent discordant chords.

SUGGESTED SUBSTITUTE

131 Film Editor, Motion Picture

PLAYWRIGHT (288)

Script Writer

Writes scenarios and scripts for theatrical, radio, or motion picture productions for entertainment or instruction of military personnel, or for publicity purposes.

Creates plots and sequences with instructional narrative, or adapts fictional, nonfictional, or historical material to dramatic form. Bears in mind the characteristics of the medium for which he is writing and forms his presentation and script accordingly. Indicates desired camera procedure, method of presentation, sound effects, and backgrounds.

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Civilian experience in writing or adapting scripts or scenarios for radio, stage, or motion pictures required.

PERSONNEL CONSULTANT ASSISTANT (289)

Psychological Assistant

Assists in the adjustment of individual personnel matters of a psychological nature and in the specialized training and rehabilitation of the mentally or physically limited, illiterate and non-English speaking enlisted men.

Administers and evaluates psychological, minimum literacy, and other individual and group tests. Interviews enlisted men concerning problems of a psychological nature and submits reports of findings and recommendations. Assists classification personnel on matters of a psychological nature involved in the classification work of a unit. May assist in the construction and evaluation of psychological tests.

Civilian experience in educational, clinical, vocational, or industrial psychology required.

SUGGESTED SUBSTITUTES

- 262 Occupational Counselor
- 263 Psychiatric Social Worker

PERSONNEL TECHNICIAN (290)

Assists in the classification and assignment of enlisted men and supervises classification personnel in the maintenance of officer's and enlisted men's qualification cards, the requisitioning of personnel replacements, selection of qualified enlisted men for special school training, and the preparation of correspondence and reports pertaining to personnel classification and assignment.

Interviews or supervises interview of enlisted men for classification purposes, checking for completeness of forms, recording and coding additional data, or determining new specialties. Compiles data and maintains required personnel records and prepares inventories of specialists and informational rosters.

May administer various tests such as Army General Classification Test, Mechanical Aptitude Test, Clerical Aptitude Test, Radio Operation Test, and various trade tests.

Should have college training and experiences in personnel administration, business or public administration, psychological or vocational counseling.

SUGGESTED SUBSTITUTES

- 275 Classification Specialist
- 289 Personnel Consultant Assistant

CHEMIST (292)

Analytical Chemist Photographic Chemist
Chemical Inspector Toxicologist

Conducts investigations and research in the various branches of chemistry dealing with such subject matter as toxic and nontoxic gases, explosives, and photographic materials.

Makes inspections of chemical warfare materials to determine their serviceability. Supervises destruction of unserviceable material. Examines enemy chemical matériel and devises protective equipment. Prepares reports on enemy matériel for use of intelligence agencies. Examines chemical properties of compounds and solutions and determines proper concentrations required.

Uses chemicals and laboratory equipment such as flasks, beakers, burettes, condensers, graduates, glass and rubber tubing, combustion furnaces, porcelain boats, gas analysis apparatus, carbon apparatus, field sampling apparatus, and analytical balances.

SUGGESTED SUBSTITUTE

- 411 Chemical Laboratory Assistant

CHEMICAL ENGINEER (293)

Performs specialized work in chemical engineering as applied to chemical warfare and the use of toxic gases.

Designs chemical equipment. Sets up and arranges chemical laboratories. Supervises organic and inorganic chemical processes. Performs research in toxic and nontoxic gases, explosives, and chemicals. Designs and devises equipment for protection against and neutralization of chemical agents. Prepares reports on enemy matériel for use of intelligence agencies.

Uses chemicals and laboratory equipment such as flasks, beakers, burettes, condensers, graduates, glass and rubber tubing, combustion furnaces, porcelain boats, gas analysis apparatus, carbon apparatus, field sampling apparatus, and analytical balances.

SUGGESTED SUBSTITUTE

- 292 Chemist

ARTIST (296)

Film Strip Artist

Makes paintings, illustrations, lay-outs, sketches, posters, or designs in connections with various activities, such as decoration, publication, training, and propaganda.

Visualizes and makes comprehensive lay-outs of training aids, or contributes to the completion of the design. Prepares cartoons, posters, or other types of illustration. Lays out and colors graphs,

SPECIFICATIONS FOR MILITARY OCCUPATIONAL SPECIALTIES

charts, maps, signs, or similar materials. Retouches photographic points to be used in film-strip production. Decorates walls of buildings with murals or other panoramic scenes.

Should be familiar with air brush technique, and have basic knowledge of retouching photographic prints.

INVESTIGATOR (301)

Counter Intelligence Corps Agent
Counter Intelligence Corps Special Agent
Criminal Investigator
Fingerprinter
Security Intelligence Agent
Security Intelligence Special Agent

Conducts investigations of crimes, accidents, sabotage, sedition, espionage and subversive activities in which military and civilian personnel or property are involved.

Collects and safeguards evidence, procures information on individuals, questions witnesses and arrested persons, examines pertinent records, and prepares case reports and summary reports; cooperates with civilian police agencies in apprehending criminals and solving crimes involving military personnel or property. May investigate fires, explosions and accidents. May take photographs of objects, places, and individuals. May recover lost, stolen, or abandoned property. May obtain and classify prints.

Security Intelligence duties include making loyalty and character investigations of civilian and military personnel for positions of trust and conducting personnel security inspections in vital war plants.

Counter Intelligence duties in combat zones and in area occupied by United States military forces include tracing rumors and propaganda sources, performing field security missions and surveys, and establishing security systems.

MACHINE OPERATOR (DESIGNATED MACHINE) (302)

Boring Mill Operator Milling Machine Operator
Drill Press Operator Planer Operator
Engine Lathe Operator Shaper Operator
Grinding Machine Operator

Operates one or more machines used in machine shops to change the shape of metal parts or tools.

Sets up machine, working from blueprints or drawings. Selects correct cutting tool, clamps metal part to machine table, and operates such machines as engine lathe, vertical boring mill, grinding machine, milling machine, planer, shaper, and drill press. Checks dimensions of machined part against blueprint, using micrometers, gauges, and calipers.

Cleans and oils machine used and sharpens cutting tools.

May operate other shop machines such as band saw, buffer, power hack saw and tapper. May machine a variety of metals, such as steel, cast iron, aluminum, and brass.

Must be able to read blueprints.

ELECTRIC MOTOR REPAIRMAN (304)

Installs, inspects, tests, and repairs electric motors and accessory equipment in a military repair or machine shop.

Tests and repairs armatures and coils. Inspects rewound armatures for broken wires and connects armature coils to commutator segments. Repairs electric motors used to power machine tools such as lathes, drill presses, and bench grinders. Refaces commutators, using fine sandpaper. Repairs starting devices and switches. Reassembles motor after repairing defects and tests for electrical fault or timing to insure adequate operation.

Equipment includes electric soldering iron, solder, pliers, wire cutter, and screw driver.

Must understand the theory of electric motors, including design, construction, and operation.

SUGGESTED SUBSTITUTES

078 Electrician
338 Instrument Repairman, Electrical
912 Electrician, Automotive

TELEPHONE OPERATOR (309)

Operates a telephone switchboard to relay incoming or outgoing messages to or from branch telephones in an Army camp, post, station headquarters, or other installation.

Makes connections with outside lines for outgoing calls. Manipulates keys and cords to receive incoming calls, to make connections, to relay calls, and to ring phones.

May perform a variety of clerical tasks when not engaged in handling calls. May operate a cordless telephone switchboard.

SUGGESTED SUBSTITUTE

055 Clerk, General

AUTOMOBILE SERVICEMAN (316)

Construction Equipment Serviceman (AAF)
Gas and Oil Man

Performs various service duties in conditioning and maintaining automotive vehicles or construction equipment in efficient operating condition.

Lubricates vehicles and equipment by means of hand operated or pressure lubrication guns and oil sprays. Drains old lubricant reservoirs and refills with new lubricant. Checks storage batteries

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for proper water level, voltage and specific gravity reading, using hydrometer and voltmeter. Adds distilled water to battery cells. Dismounts and mounts automobile tires and repairs punctured tubes by applying standard rubber patches. Refuels motor vehicles.

May make minor repairs and replacement of parts such as fan belts, radiator hoses, broken spark plugs, windshield wipers, and other common accessories.

Uses automobile mechanic's hand tools and lubricating equipment.

Must be familiar with lubricating systems of vehicles and equipment and be able to select proper types of oils and greases to be used.

Military experience in servicing automotive equipment or equivalent civilian experience required.

CONSTRUCTION EQUIPMENT MECHANIC (319)

Foreman, Construction Equipment Repair
Tractor Mechanic

Inspects, repairs, and tests construction equipment such as bulldozers, angle dozers, road scrapers, ditching machines, road graders, road rollers, cranes, power shovels, air compressors, tractors, trailers, fire pumpers, concrete mixers, and rock crushers in a mobile or fixed repair shop.

Examines visually or operates equipment to determine causes of faulty operation. Locates trouble and repairs entire unit or subassembly such as engine, track, chassis, blades, controls, booms, hoppers, and other parts by tearing down, cleaning, adjusting, and installing new or rebuilt parts and reassembling unit or subassembly.

Uses mechanic's hand tools, crowbars, hoists, gauges, calipers, and rulers.

Must have knowledge of the operation of construction equipment.

SUGGESTED SUBSTITUTES

013 Diesel Mechanic
905 Mechanic, Engine, Wheel Vehicle (Gasoline)
909 Mechanic, Engine, Track Vehicle

INTERPRETER (320)

Interprets foreign language into English or English into a foreign language to assist military personnel and others in conversing with individuals who are unable to speak the same language.

Must be able to speak foreign language and English with equal fluency.

SUGGESTED SUBSTITUTES

267 Translator
538 Voice Interceptor (Designated Language)

REFRIGERATION MECHANIC (322)

Installs, maintains, and repairs and operates refrigerating equipment used to manufacture ice or to preserve perishable foods and medical supplies in a fixed or mobile refrigeration unit.

Installs and assembles condensers, compressors, and motors. Assembles and connects pipes and ducts. Overhauls and repairs pumps, compressors, and piping. Detects leaks, using appropriate detector for particular refrigerant employed. Stops leaks by installing new piping, packing, valves, and pipe couplings. Disassembles various parts, such as valves, springs, brushes, and connections, to note their condition.

Uses hand tools, such as wrenches, pliers, and pipe cutting and threading tools.

Must know general principles of the operation of refrigeration plants.

SUGGESTED SUBSTITUTES

164 Plumber
304 Electric Motor Repairman

LUMBERJACK (329)

Performs a variety of duties in logging operations.

Tops trees to be felled, chops or saws down trees, trims branches from tree using ax, and saws logs to saw mill lengths. Moves logs to log pile using cant hook. Attaches chain from bulldozer to logs and skids logs to loading point. Works as top loader on trailer or truck, loading and securing logs with chains.

Uses ax, crosscut saw, and cant hook.

Must be above average in strength and know simple rigging.

SUGGESTED SUBSTITUTE

188 Duty Soldier II

FOREMAN, AUTOMOTIVE REPAIR SHOP (337)

Chief Mechanic

Supervises, instructs, and lays out work for enlisted mechanics, related specialists, and their helpers in the inspection, repair, or rebuild of military motorized vehicles and accessory equipment.

Supervises the inspection of incoming equipment to determine nature and extent of needed repairs. Lays out and assigns work to unit and supervises and performs more difficult or unusual repair operations. Inspects and tests accomplished work for quality and adequacy of repairs. Instructs personnel in use and maintenance of shop equipment such as mechanic's hand and bench tools, valve reseating machines, cylinder reboring machines, valve refacers, drill presses, compression gauges,

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and battery chargers. Supervises the maintenance of shop records and requisitioning of supplies, tools, and materials.

Must be able to read blueprints and lay-out work from specifications or from rough notes and sketches.

SUGGESTED SUBSTITUTES

- 013 Diesel Mechanic
- 114 Machinist
- 319 Construction Equipment Mechanic
- 905 Mechanic, Engine, Wheel Vehicle (Gasoline)
- 909 Mechanic, Engine, Track Vehicle
- 912 Electrician, Automotive

INSTRUMENT REPAIRMAN, ELECTRICAL (338)

Cleans, adjusts, repairs, and calibrates such electrical instruments as voltmeters, recording gauges, relays, motor starting boxes, ohmmeters, ammeters, and other electrical instruments.

Inspects instruments for faulty operation by disassembling, cleaning, and examining parts for wear and breakage. Repairs and replaces worn and defective parts, lubricating and making precision adjustments.

May machine and fabricate unobtainable replacement parts, using precision lathes and grinders.

Uses instrument maker's and machinist's hand tools.

SUGGESTED SUBSTITUTES

- 922 Instrument Repairman, Fire Control
- 957 Airplane Electrical Instrument Mechanic

SHOP MAINTENANCE MECHANIC (341)

Installs, maintains, and repairs machinery, machine tools, and other related shop equipment in a military machine shop, repair shop, or other maintenance center.

Makes regular inspection of shop machinery and equipment to determine operating conditions of machinery and equipment, making such adjustments and minor repairs as are necessary to maintain production efficiency. Performs major repairs on malfunctioning or damaged equipment by dismantling, disassembling, and repairing or replacing worn, damaged, or defective parts. Repairs such machines and shop equipment as engine lathes, planers, milling machines, boring machines, shapers, drill presses, overhead and monorail cranes, welding equipment, power-transmission belting, pulleys and pulley shafts, and other related equipment.

May operate one or more of the machine tools in making repairs and when fabricating replacement parts not found in stock.

Uses mechanic's hand tools and micrometers, gauges, engine lathe, power hack saw, drill press, and grinders.

Must be able to interpret blueprints including manufacturer's procedures manuals and diagrams.

SUGGESTED SUBSTITUTE

- 114 Machinist

MASTER MECHANIC (342)

Millwright

Supervises the maintenance and repair of shop facilities at an Army repair shop, machine shop, or other similar maintenance center.

Checks work requisitions, examines equipment to be repaired, and lays out schedules of work. Assigns jobs to individual specialists. Inspects progress of repairs as well as completed repair jobs for quality of work. Assists in solving the more complex problems of repair and installation. Instructs and guides new personnel in machine and repair shop practices.

Supervises painting, carpentry, plumbing, and allied maintenance work in and about a military unit.

Equipment used includes engine lathes, milling machines, boring machines, drill presses, welding equipment, hammers, saws, brace and bit, soldering iron, and wrenches.

SUGGESTED SUBSTITUTES

- 114 Machinist
- 341 Shop Maintenance Mechanic

TRUCK DRIVER, LIGHT (345)

Ambulance Driver	Chauffeur
Automotive Equipment Operator (AAF)	Dispatcher-Driver Truckmaster

Drives auto or truck (2½-ton capacity, or less) to transport personnel and equipment.

Checks operation of lights, brakes, steering mechanism, and other operating parts. Services, cleans, and lubricates vehicle. Tightens and replaces nuts, bolts, screws, and studs. Repairs flat tires. Camouflages vehicle. Accomplishes standard vehicle report forms.

Uses pliers, jack, crank, wrenches, screw driver, oiling can, and tire iron.

Should know general principles of the internal combustion engine, power transmission, and electrical system in an automotive vehicle. Must know civilian and military traffic regulations, convoy rules and road discipline. Must know how to read maps and overlays and be able to drive at night

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and during blackout over all types of terrain. Must possess Army Motor Vehicle Operator's Permit.

At supervisory level, is responsible for dispatching and routing of vehicles and column control of small motor convoys.

PARTS CLERK, AUTOMOTIVE (348)

Parts Clerk, Engineer Equipment

Receives, stores, and issues automobile or construction equipment accessories, spare parts, and tools in connection with such operations as a military motor pool, repair shop, parts supply depot, or warehouse.

Receives incoming parts on credit memorandum or transfer memorandum and prepares stock record card or enters data on previously prepared record card. Checks parts received against memorandum to insure accuracy of numbers. Stores parts in bins or rack compartments, arranging items in such manner as will facilitate issue and taking of inventories, marking all parts with identification numbers. Issues or distributes parts to personnel, departments, or sections in accordance with written memorandum, noting each withdrawal on the appropriate bin card. Periodically takes inventory of stock on hand and prepares requests for such items as will adequately maintain a balanced stock.

May prepare price lists and cost records on expendable items.

Must have working knowledge of parts, including description, nomenclature, and interchangeability of parts. Must be familiar with supply procedure and regulations governing accountability and responsibility for Government property, including the maintenance of stock and stock record accounts.

SUGGESTED SUBSTITUTES

- 014 Automotive Mechanic (Second Echelon)
- 242 Toolroom Keeper
- 457 Shop Clerk
- 848 Parts Clerk, Armament

FOREMAN, LABOR (356)

Superintendent, Labor

Supervises a group or groups of service crewmen in the performance of various unskilled jobs, such as ditch-digging, loading and unloading supplies, erecting tents and uncrating equipment, in connection with such activities as construction, supply, grading, maintenance, cleaning, and transportation.

Obtains and issues hammers, saws, rakes, shovels, picks, wrecking bars, and hand trucks. Keeps records of work performed and prepares rosters for distribution of work.

SUGGESTED SUBSTITUTE

188 Duty Soldier II

GLASSBLOWER (358)

Makes glass articles for use in military chemical laboratories.

Manipulates molten glass at the end of blowpipe, using pincers and blowing through pipe to elongate and inflate the glass. Forces glass into metal molds of proper shape and design.

CONSTRUCTION MACHINE OPERATOR (359)

Concrete Mixer Operator Rock Crusher Operator Road Grade Operator

Operates one or more construction machines such as road grader, bulldozer, angledozer, road roller, scraper, rock crusher, and concrete mixer used in construction and maintenance work on roads and airports.

Moves and carries away dirt, trees and boulders by manipulating levers, pedals and throttle controls on machines used to level, grade and fill surfaces. Operates and feeds rock crushing machines, and observes flow of rock through crusher. Sizes crushed rock. Operates concrete mixing machine and feeds proper proportions of sand, gravel, cement and water into drum. Lubricates and cleans machines.

OPTICIAN (365)

Grinds, polishes, cuts and edges eyeglasses according to specifications, using a lens grinding machine which has an adjustable dioptric scale that can be set to produce lens with any prescribed curvature.

Takes facial measurements of soldier and mounts lenses on proper sized frame. Adjusts eyeglasses to face at proper angles to obtain maximum effect of lenses. Requisitions lenses and frame from medical supply unit.

May fit eyeglasses in gas masks.

ORTHOPEDIC MECHANIC (366)

Makes various types of braces, supports, artificial limbs, and other orthopedic appliances according to specifications.

Assembles artificial limbs by attaching metal joints to related parts. Hollows out artificial limbs with carving tools and makes necessary corrections to fit the wearer. Forms a plaster cast of the foot or obtains an imprint of the member on paper, and fashions the support from stainless steel, plastics, cork, steel, and leather, using rivet punch, electric drill, welding apparatus, chisels, saws, hammers, and other hand tools. Molds leather parts over wooden lasts and rivets them to braces with riveting machine. May repair and alter orthopedic shoes.

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PURCHASING AGENT (371)

Buyer

Purchases new materials, equipment, machinery, and other supplies at the most favorable prices consistent with quality, quantity, and other factors in garrison or in the field.

Draws up specifications according to military standards, using correct nomenclature. Forwards invitations for bids, opens bids, interviews salesmen, and awards contracts. Maintains records such as cost, delivery, inventories, and other items pertaining to purchases. Checks receipt of supplies as ordered. Supervises clerical workers in purchasing and contracting office.

May make cash purchases and keep records and funds.

Must be thoroughly familiar with Army regulations governing procurement methods and procedures.

SUGGESTED SUBSTITUTE

819 Commissary Steward

SALES CLERK (373)

Cashier

Sells various types of merchandise to customers in a military store, such as a fixed or mobile commissary unit.

Arranges stock on sales floor and requisitions replacements as needed. Arranges displays. Assists customers in making selections. Assists in taking periodic inventories.

May receive payment for articles, and wrap merchandise.

SUGGESTED SUBSTITUTE

835 Supply Clerk

MOTORCYCLIST (378)

Motorcycle Scout

Drives a motorcycle with or without side car for patrol work, traffic control, messenger service, combat, or reconnaissance. Services motorcycle, performs first echelon maintenance, and makes minor repairs.

Must be capable of operating motorcycle under adverse conditions. Must know how to use maps and compass, and be able to orient himself in unfamiliar territory.

SUGGESTED SUBSTITUTE

345 Truck Driver, Light

WATCH REPAIRMAN (381)

Clockmaker Watchmaker

Watch or Clock Inspector

Cleans, adjusts, repairs, and oils watches and clocks.

Takes timepiece apart for repairing or cleaning by prying off or unscrewing case, lifting mechanism from case, and disassembling springs, balances, and other parts. Examines various parts to discover defects and repairs and adjusts timepiece by inserting new main or hairsprings, resetting pivots and repairing or replacing affected parts. Cleans timepiece by brushing parts or by immersing parts in benzine, gasoline, or other cleaning solutions. Oils timepieces by dropping small amounts of oil on moving parts.

Equipment includes small pliers, tweezers, screw drivers, magnifying lenses, watchmaker's lathe, and watchmaker's brush.

Civilian experience as watchmaker desirable.

SUGGESTED SUBSTITUTE

098 Instrument Repairman, Nonelectrical

FIRE FIGHTER (383)

Operates and maintains fire fighting equipment, rescues people and salvages articles during a fire.

Connects hose couplings to pump and to hydrant, tightens hose connection with spanner wrench, lays hose, turns on hydrant with wrench, handles hose nozzle, and sprays water on fire. Uses chemical spray for petroleum fires. Rescues people and salvages articles of value during fire. Keeps fire fighting equipment clean and in good operating condition.

May drive fire truck. May supervise a crew of fire fighters in fighting fires.

Uses ladder, ax, spanner wrench, and gas mask.

Must be familiar with methods of extinguishing incendiary bombs. Must understand demolition methods in preventing the spread of fire. Must know resuscitation and first-aid treatment.

INSTALLER, TOLL TELEPHONE AND TELEGRAPH (384)

Installs and performs initial testing of telephone repeaters, telegraph repeaters, telegraph testboards, and other terminal equipment for toll telephone and telegraph printer circuits in a military communication system.

Installs repeater connecting wires to various terminals of equipment according to diagram. Inspects and tests circuits and equipment to locate troubles, using testing devices such as voltmeters and ohmmeters. Diagnoses cause of trouble and makes repairs or adjustments by soldering proper connections, and cleaning or replacing defective or worn parts.

Uses wide variety of tools including cutting and long nose pliers, screw drivers, socket wrenches, thickness gauges, soldering iron, burnishing tool, hack saws, augers, ratchets, and files.

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SUGGESTED SUBSTITUTES

097 Installer-Repairman, Telephone and Telegraph
187 Repeaterman, Telephone
232 Switchboard Installer-Repairman, Manual

CARTOGRAPHER (387)

Performs various drafting tasks in connection with the drawing of maps (other than topographical) of roads, cities, towns, and other areas of military importance.

Computes, draws and copies maps from notes or other maps, using such tools as T-square, triangles, engineer's scale, French curve, railroad and contour pens, lettering guides, protractor, map measure, drawing table and color paints. Colors terrain features and indicates location of artillery objectives, detailed trenches, communication lines and roads.

Must be familiar with conventional signs and symbols used in military map making. Must know drafting fundamentals and the use of drafting tools.

SUGGESTED SUBSTITUTES

070 Draftsman
076 Draftsman, Topographic

TABULATING MACHINE OPERATOR (400)

Sets up and operates electrically powered tabulating machines such as horizontal sorters, collators, reproducers, interpreters and alphabetic tabulators, for furnishing statistical and other types of information pertaining to military personnel and records. Wires plug boards to correspond to required operations and inserts board into machine. Makes minor adjustments to mechanical and electrical parts.

May supervise enlisted men in machine operations, assigning work and checking operations.

Must have knowledge of machine records procedures, and be able to operate and adjust tabulating machine equipment.

SUGGESTED SUBSTITUTE

272 Key Punch Machine Operator

HIGH VOLTAGE CABLE SPLICER (401)

Splices high voltage wires to join multiple conductor cables in the installation and maintenance of military electric railway catenary systems.

Dries out moisture from splice with paraffin or desiccant, wraps, and covers with lead sleeves. Tests sheath by means of gas or air under pressure. Tests conductors for continuity and insulation by means of buzzer system or other test instruments. Climbs poles, using climbing tools and aids.

Tools and equipment used include climbing irons, safety belt, repair set consisting of wire, pliers, screw driver, knife, splices, insulating and

friction material, and conductor and insulation testers.

Must be familiar with standard operating rules and regulations governing military railway electric transmission systems. Should be able to splice rubber covered cable. Should have experience on cables of 440 voltage and up.

SUGGESTED SUBSTITUTES

039 Cable Splicer, Tp and Tg
165 Lineman, Power
238 Lineman, Tp and Tg
182 High Voltage Lineman

CLERK-TYPIST (405)

Addressing-Embossing	Clerk, Company
Machine Operator	Clerk, Headquarters
Administrative and Technical	Personnel Clerk
Clerk	Typist
Chaplain's Assistant	Vari-Typist
Clerk, Battery	

Performs numerous clerical and typing duties in a military organization.

Uses typewriter to prepare mimeographs, stencils, military correspondence, indorsements, reports, and standard forms peculiar to military administrative and personnel matters. Uses a graphotype machine to emboss information on metal tabs for use with addressograph equipment. Distributes, classifies, and files correspondence. Keeps alphabetical and numerical file in accordance with military methods. Opens mail, receives, and transmits telephone messages and routes correspondence.

Must be able to type accurately at approximately 35 words per minute or better. Must have good general knowledge of military filing classification system. Must understand the structure of military correspondence.

Should be familiar with preparation of military forms such as morning reports.

SOUND MIXER, MOTION PICTURE (407)

Operates sound mixing board in connection with the production of motion pictures for historical, training, or publicity purposes.

Studies script of dialogue, sound and music effects of each scene. Locates sound mixing board near source of sound. Tests equipment by turning power switch and checking meter readings. Regulates the tone, volume, and quality of sound picked up by one or more microphones on set by means of control switches on sound mixing board so that the sound may be recorded on films or records to provide desired effects. Tests results by listening to noises and sound through headphones. Watches volume level indicator and adjusts volume controls.

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SUGGESTED SUBSTITUTES

- 208 Sound Recorder, Motion Picture
- 115 Electrician, Sound Transmission

MEDICAL TECHNICIAN (409)

Performs various medical duties as a male nurse to assist medical officers in the care and treatment of the sick, injured, or wounded.

Gives emergency medical treatment to casualties and prepares them for evacuation. Cleans and bandages injuries and wounds, applies arm and leg splints, administers hypodermic injections, and sterilizes instruments and equipment. Assists medical officers by performing such duties as keeping records of patients, administering medicines, taking temperature, pulse, respiration rate, and physical measurement and treating minor injuries.

SUGGESTED SUBSTITUTES

- 657 Medical Aidman
- 858 Medical Laboratory Technician
- 859 Pharmacy Technician
- 861 Surgical Technician

CHEMICAL LABORATORY ASSISTANT (411)

Assists in military chemical laboratory working with toxic and nontoxic gases and explosives or other chemical compounds and solutions.

Performs various routine tests, such as filtration, titration, or precipitation. Makes laboratory test reports on toxic and nontoxic gases and explosives. Furnishes test data. Check analyses with specifications. Maintains supply of chemicals in laboratory. Cleans laboratory equipment.

Equipment used includes organic and inorganic chemicals, laboratory glass apparatus such as flasks, beakers, burettes, condensers, and graduates, glass and rubber tubing of various sizes, field sampling apparatus, and analytical balances.

MOTOR INSPECTOR (413)

Vehicle Inspector

Inspects and tests military motor vehicles visually, by road testing, or with the aid of special testing devices to determine operating efficiency, need of repairs, or adequacy and completeness of repairs.

Visually examines all accessible parts for loose connections, badly frayed or worn insulation, proper lubrication, and other potential hazards to operating efficiency.

Using such tools and testing devices as screw driver, hammer, adjustable and socket wrenches, pliers, spark plug wrench, compression tester, neon timing light, wheel alignment gauge, and thickness gauge, conducts tests to obtain data on motor timing, cylinder compression, fuel consumption, head

light focusing, and wheel alignment. Interprets tests to determine type of repairs needed or adequacy of completed repairs.

When feasible, conducts road tests, checking for ease of starting, ease of handling, acceleration, unusual noises, proper functioning of panel instruments and controls, and for correct brake action. Prepares written report on each vehicle inspected, reporting condition of vehicle and recommended action.

Must be familiar with principles of internal combustion engines. Must be familiar with ordnance regulations regarding maintenance and repair of vehicles.

SUGGESTED SUBSTITUTES

- 013 Diesel Mechanic
- 014 Automotive Mechanic (Second Echelon)
- 319 Construction Equipment Mechanic
- 905 Mechanic, Engine, Wheel Vehicle (Gasoline)
- 909 Mechanic, Engine, Track Vehicle
- 965 Mechanic, Automotive, Wheel Vehicle (Third Echelon)
- 966 Mechanic, Automotive, Track Vehicle (Third Echelon)

ELECTRICIAN, SOUND TRANSMISSION (415)

Transmission Man, Sound (Electrician)

Establishes and maintains electrical circuits for the transmission, recording, and reproduction of sound in production motion pictures for training, entertainment, or publicity purposes.

Installs and visually checks various patching cords of a sound circuit in recording and amplifying equipment to insure a flow of current from the sound source to the recording machine. Checks electrical frequency devices installed in the circuit. Tests the circuits and sound equipment by using various portable testing instruments such as voltmeters and ammeters.

Uses electrician's hand tools.

Should have some knowledge of the operation of the component parts of sound recording equipment, such as microphones, amplifiers, mixing panel, noise reduction amplifier, attenuators, and recorders.

SUGGESTED SUBSTITUTES

- 078 Electrician
- 132 Electrician, Motion Picture

PODIATRIST (422)

Chiroprapist

Makes diagnoses and treats minor ailments of the feet of military personnel.

Removes corns, bunions, and treats similar defects. Massages feet and administers local anaes-

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thetics or local antiseptics. Prescribes correct footwear. Does not amputate nor administer anaesthetics or drugs other than local.

Must have completed a course of study recommended by the Council of Education of the National Association of Chiropodists. Should hold a degree of Doctor of Surgical Chiropody (D.S.C.) from an accredited school of chiropody or podiatry.

TABULATING MACHINE REPAIRMAN (425)

Makes electrical and mechanical repairs and adjustments to electrically operated punch card accounting machines such as tabulators, sorters, reproducers, key punch machines, interpreters, collators, and similar machines.

Disassembles and repairs machines by replacing defective parts such as gears, generators, and motors, and adjusting feed knives, camshafts, and ratchets.

Uses mechanic's hand tools.

Must be able to read electrical and mechanical diagrams. Must be able to wire and operate tabulating machines.

SUGGESTED SUBSTITUTE

400 Tabulating Machine Operator

MACHINIST'S HELPER (431)

Assists a machinist in the construction and repair of metal parts, tools, and machinery in connection with the operation of an Army machine shop.

Assists in setting up, adjusting, and operating machines such as lathes, planers, shapers, milling machines, and boring mills. Oils and cleans machinery. Performs roughing of material not requiring close tolerance.

May work from written specifications.

Uses such bench tools as scrapers, chisels, files, gauges, and meters.

Should be able to read blueprints.

SUGGESTED SUBSTITUTE

302 Machine Operator (Designated Machine)

BANDSMAN, CLARINET (432)

Plays a clarinet in a military band.

Reads music and plays instrument while marching in military formation.

Should be familiar with military marches and selections used in Army bands.

BANDSMAN, CORNET OR TRUMPET (433)

Plays a cornet or trumpet in a military band.

Reads music and plays instrument while marching in military formation.

Should be familiar with military marches and selections used in Army bands.

BANDSMAN, BASS DRUM (434)

Bandsman, Glockenspiel

Plays a bass drum or glockenspiel in a military band.

Reads music and plays instrument while marching in military formation.

Should be familiar with military marches and selections used in Army bands.

BANDSMAN, SNARE DRUM (435)

Plays a snare drum in a military band.

Reads music and plays instrument while marching in military formation.

Should be familiar with military marches and selections used in Army bands.

BANDSMAN, EUPHONIUM OR BARITONE (436)

Plays a euphonium or baritone in a military band.

Reads music and plays instrument while marching in military formation.

Should be familiar with military marches and selections used in Army bands.

BANDSMAN, FLUTE OR PICCOLO (437)

Plays a flute or piccolo in a military band.

Reads music and plays instrument while marching in military formation.

Should be familiar with military marches and selections used in Army bands.

BANDSMAN, FRENCH HORN (438)

Plays a french horn in a military band.

Reads music and plays instrument while marching in military formation.

Should be familiar with military marches and selections used in Army bands.

BANDSMAN, SAXOPHONE (439)

Plays a saxophone in a military band.

Reads music and plays instrument while marching in military formation.

Should be familiar with military marches and selections used in Army bands.

BANDSMAN, TROMBONE (440)

Plays a trombone in a military band.

Reads music and plays instrument while marching in military formation.

Should be familiar with military marches and selections used in Army bands.

BANDSMAN, TUBA (441)

Plays a tuba in a military band.

Reads music and plays instrument while marching in military formation.

SPECIFICATIONS FOR MILITARY OCCUPATIONAL SPECIALTIES

Should be familiar with military marches and selections used in Army bands.

ENTERTAINMENT SPECIALIST (442)

Actor	Musician, Instrumental
Entertainer	Radio Program Supervisor
Entertainment Director	Director

Provides entertainment by means of personal performance or preparation of material for use in theatrical and radio programs or motion picture productions.

May entertain audience by means of a skit, dance, reading, song, comedy act, feat of skill, or by playing a musical instrument.

May plan, organize, and direct entertainment programs, using military personnel or professional or amateur talent. May act as master of ceremonies.

PROCESS BACKGROUND SUPERVISOR (449)

Special Effects Supervisor

Directs the projection of all photographic process background images which are thrown on or through screens to provide background for scenes being photographed.

Arranges set-up of projectors and angles of projection to assure proper effect when shown on single or double opaque screens from front or translucent screens from the rear. Assists in placing of camera to insure that foreground and background will be in proper proportion and angle. Prepares projection plates and slides for desired background effects.

Uses equipment such as slide projectors, opaque and translucent screens, motion picture projectors, slide transparency repair equipment, and spotlights.

Must know the characteristics of the motion picture or still camera being used to photograph backgrounds. Must understand the operation and maintenance of slide and motion picture projectors. Must be capable of developing lighting effects with use of theatrical spotlights.

OPTOMETRIST (452)

Examines eyes for muscular and structural defects and prescribes lenses and eye exercises to correct defects.

Visually inspects eyes for external evidences of pathological conditions requiring corrective medical or surgical treatment. Examines eye internally using ophthalmoscope and retinoscope to obtain clear vision of the interior of the eye. Determines lens necessary to correct abnormal eye conditions, such as near- and far-sightedness and astigmatism. Places trial frame over patient's eye, se-

lects proper lens from trial case, and directs the patient to view chart through lenses. Prescribes eye exercises to alleviate and correct muscular involvements of the eyes. Makes simple tests for color blindness.

Must have knowledge of anatomy and pathology of the eye.

Must be licensed optometrist and be graduate of an approved school of optometry.

DIVER (454)

Diver, First Class	Salvage Diver
Diver, Second Class	Salvage Master
Master Diver	

Performs underwater salvage, construction, and demolition work in harbors, rivers, and ports.

Inspects gear before diving, checking valves, lines, connections, and suit. Patches own suit and maintains own equipment. Puts on suit and helmet with aid of helper. Enters water using ladder or platform and regulates air in suit by means of valves. Maintains contact with surface by lines and phone. Surfaces by increasing air in suit. Prepares vessels for raising by welding stanchions to hull and deck, cutting metal from vessel, jettisoning and excavating for lines, rigging, connecting pipes, and sealing compartments. Assists in constructing wharves and piers by bracing, sawing, and rigging heavy timber and by welding, cutting, bolting, and rigging structural steel. Demolishes vessels, wharves, and debris by drilling holes, using air tools, and placing and firing charges.

Must have knowledge of tides, currents, water pressure, and diving safety rules. Must know fundamentals of ship construction and compartmentation of vessels. Must be able to give a good description of underwater conditions and to search for objects on the bottom.

DIVER'S HELPER (455)

Performs a variety of duties above water to assist a diver.

Assists diver in checking gear before diving. Assists diver in putting on diving suit. Puts on and tightens diver's helmet. Checks air and communication lines for obstructions and leaks. Controls lines while diver is descending, is on bottom, and when diver is surfacing. Communicates with diver, using phone or hand line. Assists diver in taking off diving suit. Assists diver in maintaining diving equipment.

Supplies diver with tools and equipment when on bottom, lowering tools, cutting torches, and material on lines.

MILITARY OCCUPATIONAL CLASSIFICATION OF ENLISTED PERSONNEL

CALKER (456)

Closes seams in the planking in ship's hull or caisson.

Sets calking in seams, using a calking iron and mallet. Inserts oakum into seam and hammers it in with mallet. Fills seam with hot pitch or uses putty to cover the calking. Removes old calking from seams, using reaming iron and mallet.

Must know the construction of ship's hulls and compartments.

SUGGESTED SUBSTITUTE

202 Carpenter, Ship

SHOP CLERK (457)

Performs various clerical and technical duties in connection with the operations of a military repair shop, automotive repair shop, or other maintenance service center.

Records and established a shop control system on all incoming repairs and work orders. Under supervision of shop foreman, establishes priorities for shop repairs and prepares itemized lists of required replacement parts. Routes repair jobs through shop and maintains progress reports on daily status of repairs. Maintains all shop records and assists shop foreman in requisitioning and maintaining adequate supply of shop materials and tools.

Must be familiar with shop procedures and be able to estimate time requirements on various repair operations. Should have a working knowledge of mechanics, including nomenclature of shop tools and equipment.

SUGGESTED SUBSTITUTES

242 Toolroom Keeper

348 Parts Clerk, Automotive

848 Parts Clerk, Armament

DOG TRAINER (458)

Dog Handler

Dog Training Instructor

Kennelman

Performs one or a combination of duties in selecting, training, issuing, caring, and feeding of dogs used for sentry work, attack work, scouting, message-carrying, and location of wounded on the battlefield.

Teaches enlisted men to train dogs to *heel, sit, drop, stay, come, crawl, and jump* on command, both on and off leash; and to become accustomed to muzzles, gas masks, cars, and gunfire. Determines the specific function for which each dog should be trained. Eliminates dogs unsuitable for military service. Maintains single or multiple unit kennels and improvises kennels. Prepares food for dogs according to recommended feeding standards.

SAWMILL MACHINE OPERATOR (459)

Foreman, Lumber Yard

Foreman, Piling

Foreman, Milling

Foreman, Sawmill

Operates a headsaw, cutting logs into lumber in a portable or semiportable sawmill.

Signals crew to roll log onto log carriage and set log to position for sawing. Manipulates levers to move the log and carriage against revolving saw to edge and cut boards and beams to standard thickness, length, and width. Signals crew to turn log over on carriage and reset for sawing. Segregates and piles lumber according to dimension and species. With assistance of crew, changes broken or dull saws and cleans and oils sawing machinery.

Must know proper positioning of logs on carriage to obtain maximum lumber.

May supervise sawmill crew, assign duties, check sawmill operation, and advise on correct methods of sawing and piling lumber. Maintain records of sawmill operation.

FOREST PRODUCTS TALLYMAN (462)

Log Scaler

Lumber Grader Tallyman

Determines lumber content of logs prior to milling, inspects and grades manufactured lumber products, and records lumber content of shipments.

Measures length and diameter of logs, using scaling stick or tape to determine lumber content, and records measurements in book or on end of log.

Classifies lumber according to species and types, inspecting for compliance with specifications and noting defects and unsatisfactory machine work. Removes unsuitable pieces and returns to other workers for salvaging.

Checks lumber content of shipment or storage lots in board feet, linear feet, cubic feet, or cords and computes total amount in each lot.

Computes data and prepares reports for inventory, stock control, and procurement purposes.

Must know units of measure as applied to forest products. Must know species, grades, and specifications of wood. Must be able to calculate data rapidly.

MILLWRIGHT, SAWMILL (464)

Installs, adjusts, repairs, and maintains machinery and equipment of portable and semiportable sawmills.

Constructs sawmill foundations of heavy timber and lumber, using carpenter's tools. Moves and installs sawmill machinery, using jacks, hoists, slings, blocks, skids, and cribbing.* Maintains and repairs machinery for efficient operation by lubri-

SPECIFICATIONS FOR MILITARY OCCUPATIONAL SPECIALTIES

ating bearings and gears and replacing belts, bearings, and shafts. Sharpens saws by filing and replaces saw teeth.

Must be experienced in the operation of portable or semiportable sawmills.

SUGGESTED SUBSTITUTES

341 Shop Maintenance Mechanic

342 Master Mechanic

FOREMAN, LOGGING (466)

Timber Cruiser

Supervises the work of logging crews in the cruising, locating, felling, bucking, and transportation of logs.

Reads maps to determine extent of logging possible in timber tract, and decides upon loading points. Assigns crews to duties, inspects and advises on methods of topping, felling, and bucking logs.

May estimate the volume and quality of timber on a tract of land. Determines timber tract from map. Walks over timber track and measures trees, using scale and special hand measuring devices. Indicates trees to be cut, records data, and estimates total volume in area for procurement and inventory purposes. Locates operating and camp sites. Estimates man-days required for operation of the tract.

Must understand the use of all types of logging equipment. Must know safety rules used in logging operations. Should be familiar with mountain and swamp logging under winter and summer weather conditions.

SUGGESTED SUBSTITUTE

459 Sawmill Machine Operator

CARGO CHECKER (470)

As member of checking crew, maintains record of incoming and outgoing shipments of supplies and equipment.

Itemizes number, weight, volume, quantity, and other identification data on tally sheet. Stands where cargo is tiered on the wharf and checks items when draft is being prepared for loading or when draft is unloaded and tiered. Stands in hold and checks cargo for damage or pilferage.

SUGGESTED SUBSTITUTES

055 Clerk, General

835 Supply Clerk

WINCH OPERATOR (473)

Operates steam, electric, air, or gasoline-driven winches in loading and unloading ships.

Inspects winch prior to operation. Checks lever,

catheads, pipe connections if steam or air driven, and wire connections if electrically driven. Lubricates moving parts and bearings. Checks condition of fall, noting frayed strands. Receives directions for operating winch from signalman, by means of hand signals. Manipulates lever, running drum forward or in reverse to raise, lower, or swing draft of cargo.

May operate two winches at a time if operating conditions permit.

Must know safety rules in handling cargo.

SUGGESTED SUBSTITUTE

063 Crane Operator.

MECHANIC, MARINE ENGINE (477)

Master Mechanic, Marine

Mechanic, Diesel

Maintains and repairs marine engines and equipment such as propelling machinery, steam, Diesel, gas, or electric auxiliaries, pumps, anchor handling gear, steering apparatus, and boilers, on military vessels.

Replaces worn or broken parts with new or improved parts. Adjusts and tests repaired equipment for proper operation.

As master mechanic, inspects the different types of equipment and supervises the disassembly, replacement of worn or broken parts, and the reassembly of repaired equipment. Inspects completed repairs for quality of work. Instructs marine mechanics in the fitting and assembly of machine parts, cutting and fitting gaskets, grinding and lapping valves and joints, cutting thread, and bending and fitting tubes and tubing.

Must be familiar with engines and auxiliary equipment, including condensers, vacuum pumps, boiler-feed water pumps, circulating pumps, and water gauges.

SUGGESTED SUBSTITUTES

013 Diesel Mechanic

080 Marine Engineer

905 Mechanic, Engine, Wheel Vehicle (Gasoline)

909 Mechanic, Engine, Track Vehicle

SHIP FITTER (478)

Prepares templates and lay-outs for special forms, such as plates and foundations of ship's hull.

Marks rivet holes to be punched or drilled. Assembles plates, bottom frames, side frames, and brackets for bilge and decks, watertight and non-watertight floors, bulkheads, clips for the vertical keel, longitudinal stringers, and brackets. Regulates and secures all plate units in position for bolting and welding.

MILITARY OCCUPATIONAL CLASSIFICATION OF ENLISTED PERSONNEL

Equipment used includes T-square, framing square, tin shears, hacksaw, chalk, and soapstone.

SUGGESTED SUBSTITUTES

201 Sheet Metal Worker
256 Welder, Combination

STILL OPERATOR (479)

Stillman
Stillman Helper
Topman

Operates or directs the operation of one or a battery of stills in which oil is broken down into such products as gasoline, kerosene, lubricating oil, fuel oil, and petroleum coke.

Patrols unit to check operating conditions. Observes and records readings of temperature, pressure, and flow gauges and meters. Regulates temperature, pressure, and flow of oil by adjustment of pipe valves or automatic controls. Tests products for specific gravity and observes color to check processing. Draws samples for laboratory analysis. Performs preventive maintenance such as packing pumps and valves and making minor adjustments.

May mix tetraethyl lead with gasoline to produce antiknock and high-power gasoline.

Must be able to test equipment. Must be able to calculate output and yield. Must be able to make simple laboratory tests for gravity and color. Must be familiar with fire fighting and safety procedures.

ENTOMOLOGY TECHNICIAN (484)

Collects, identifies, and classifies mosquitoes and other insects for the purpose of accumulating information for use in their control and medical research.

Should have completed courses as a member of a malaria survey given by the Medical Department, or should have pursued a formal course of instruction in entomological techniques at a technical school or Army laboratory.

PETROLEUM STORAGE TECHNICIAN (485)

Terminal Operator Assistant
Terminal Supervisor, Petroleum Products

Supervises the storage, handling, and distribution of petroleum products, and operation and maintenance of storage terminals or tank farms at ports, beach heads, airfields, or bulk stations. Checks amount and kind of petroleum products in tanks against stock records, directing work of gaugers. Obtains samples for testing prior to pumping. Prepares information for pump station operators and other terminal operators as to time, amount, route, and destination of products to be pumped. Directs the connecting of available tanks for receiving or

distributing petroleum products. Supervises the cleaning and maintenance of tanks, pumps, and terminal equipment.

Must know methods of storing petroleum products. Must have knowledge of operation and maintenance of pumping equipment for handling such materials. Must have knowledge of hazards in handling petroleum products, fire-fighting principles, and petroleum fire-fighting equipment and techniques.

SAFETY INSPECTOR (486)

Assistant Safety Engineer

Inspects War Department installations and facilities for the existence of hazards endangering life and property.

Inspects facility areas, activities, machinery installations and equipment, and enforces safety measures. Investigates accidents and makes recommendations to correct or eliminate causes. Checks operating procedures for compliance with safety rules and regulations. Instructs enlisted personnel in recognition of existing hazards and necessary precautions to prevent accidents.

For petroleum inspections, must be qualified to assist in the enforcement of safety precautions throughout a petroleum pipeline system and instruction of enlisted personnel in safe handling of gasoline, precautions to be taken while repairing leaks, and prevention of static charges.

Should be familiar with industrial processes and hazards, production problems and military training requirements and methods.

Training and experience in industrial accident prevention, safety engineering, public safety, fire prevention or industrial hygiene very desirable.

PETROLEUM PUMPING EQUIPMENT REPAIRMAN (487)

Makes major repairs on petroleum pumping equipment and pipelines.

Repairs leaks by tightening couplings and installing leak clamps. Repairs breaks in pipe by installing new pipe and coupling. Repairs engines, pumps, and controllers by tearing down, cleaning, adjusting, and installing new or rebuilt parts and reassembling equipment.

Uses mechanic's hand tools, drift pins, gas indicator, and special nonsparking tools.

Must know first aid and be able to give artificial respiration.

SUGGESTED SUBSTITUTES

013 Diesel Mechanic
114 Machinist
905 Mechanic, Engine, Wheel Vehicle (Gasoline)

SPECIFICATIONS FOR MILITARY OCCUPATIONAL SPECIALTIES

ADMINISTRATIVE NCO (502)

Administrative Inspector
Administrative Specialist (AAF)
Chief Clerk
Personnel NCO
Sergeant Major

Supervises and directs work of one or more administrative sections of a headquarters organization in the preparation of correspondence, records, forms, reports, and orders.

May supervise the preparation of reports, correspondence, records, and forms on personnel matters, including payrolls, special orders, courts-martial proceedings, morning reports, sick reports, rosters, leaves, furloughs, and discharges. May keep a staff journal and policy file. Must be familiar with operation of unit to which assigned.

SUGGESTED SUBSTITUTES

055 Clerk, General
213 Stenographer
405 Clerk-Typist

AMMUNITION NCO (505)

Ammunition Supply Technician (AAF)

Supervises requisition, procurement, and distribution of ammunition.

Prepares required forms incident to the requisition and distribution of ammunition. Keeps inventory of ammunition. Supervises loading and unloading operations of an ammunition train, consisting of trucks, horse-drawn vehicles, or pack animals, observing all safety precautions in handling ammunition. Establishes a local ammunition dump, and supervises construction operations to protect ammunition from the elements. Maintains sufficient level of stock to meet needs of organizations served.

May salvage ammunition left at battery positions as result of forward displacement.

Must know all markings, such as color, caliber, lot, type of charge, and filler of gas, smoke, and high explosive shells. Must understand the hazards and safety regulations regarding ammunition, fuses, and primers.

SUGGESTED SUBSTITUTE

901 Munitions Worker

PORTABLE POWER GENERATOR REPAIRMAN (506)

Maintains and repairs a portable power generating unit consisting of a gasoline engine and a small electric generator.

In repairing gasoline engine, removes carbon from valves and cylinder heads. Cleans and adjusts carburetor. Replaces fan belts and any other

defective parts, such as bearings, piston rings, and spark plugs. Tunes motor by listening to it and adjusting carburetor, timing, ignition system, and valve clearance. Uses wrenches, pliers, screw drivers, and feeler gauge.

In diagnosing and repairing malfunctions in the generator, observes operation of brushes to see if they spark. Examines armature and field windings to see that they are not burned or shorted. Checks for grounds or shorts by testing at various points, using test prods and voltmeter. Recommends return of generator to repair unit if windings are burned, shorted, or grounded. Replaces external wiring between generator and control panel. Replaces faulty bearings. Removes armature and sends it to repair unit if the commutator is in need of turning. Cleans, tightens, and solders loose connections. Lubricates bearings and reassembles unit.

SUGGESTED SUBSTITUTES

014 Automotive Mechanic (Second Echelon)
078 Electrician
912 Electrician, Automotive

BOMBARDIER (509)

Releases bombs on enemy targets from a bombardment airplane.

Adjusts bombsight for such specific conditions as ground speed, elevation, and drift. Identifies target and sights it through optical system of bombsight when pilot begins the run, releasing bombs when target is seen in correct relation to appropriate markings on bombsight. Corrects bombsight adjustments when course is altered. Reports effect of bomb hits to airplane commander. Inspects and makes flight adjustments to bombsight and bomb release mechanisms. Fires aerial machine guns. Reads maps to identify and locate ground targets.

Must be physically qualified for high altitude flight.

INFORMATION CENTER OPERATOR (510)

Aircraft Warning Filterer Aircraft Warning Plotter
Aircraft Warning NCO Aircraft Warning Teller

Places small markers on plotting or filter boards to indicate the presence, type, direction, and altitude of friendly and enemy aircraft approaching or present in a specified area.

Receives information by telephone from radar station and observation posts, coded in the form of short numerical sequences. Selects and places proper marker on plotting or filter board at point of intersection of grid coordinates which represent the position of reported or observed aircraft. Places additional markers on board to indicate altitude, direction, and other data pertaining to aircraft flights. Reports information displayed on plotting

MILITARY OCCUPATIONAL CLASSIFICATION OF ENLISTED PERSONNEL

or filter board to personnel of operations room. Records plotted information in log. Computes speed of flights by measuring distances between markers on filter board which indicate points at which aircraft were located at specific times.

Must be able to place markers accurately on plotting or filter board at a speed of eight to ten plots a minute for any required period.

SUGGESTED SUBSTITUTES

055 Clerk General
309 Telephone Operator

ARMORER (511)

Maintains, services, and makes minor repairs on all small-arms weapons of using organization.

Examines such weapons as rifles, carbines, pistols, rocket launchers, light and heavy .30- and .50-caliber machine guns by manually operating mechanisms. Cleans weapons, using oil, still bristle or wire brush, wiping cloth, and emery cloth. Disassembles weapons, sands, and removes all burrs, replaces worn or unserviceable parts, and reassembles weapons. Sends all weapons requiring major repairs to appropriate Ordnance shops.

Performs miscellaneous organization tasks including carpentry, painting, and similar organizational repair work.

Uses such tools and equipment as pliers, screw drivers, chisels, punches, files, drift pins, hammers, and bench vise.

Must be familiar with construction and operation of small arms weapons. Must be able to estimate condition of guns and gun parts and determine whether replacements are necessary. Must be familiar with Ordnance regulations governing repair of small-arms weapons.

SUGGESTED SUBSTITUTE

802 Artillery Mechanic, Minor Maintenance

RADAR CREWMAN (DESIGNATED SET) (514)

Chief Radar Operator
Radar Operator (Designated Set)
Portable Power Generator, Operator

As a member of a team assembles and disassembles mobile or fixed ground radar equipment (designated set) and operates it by manipulating tuning or operating controls while observing readings on oscilloscopes. Plots and reads both polar and rectangular coordinates and converts polar coordinates into rectangular coordinates. Assists in keeping equipment in good operating condition and in preparing equipment for transportation.

Uses small hand tools in maintenance and repair work which consists of inspecting, dusting, and oiling equipment; and making simple repairs, ad-

justments, and replacements of parts such as fuzes, filters, batteries, pilot lights, and spark plugs.

May direct and instruct crew in the operation of designated sets and rotate task assignments to prevent fatigue and maintain efficiency. May supervise the assembly and disassembly of ground radar equipment.

Must be familiar with the principles of detection and identification by radar equipment. Must be thoroughly familiar with procedures for operating the equipment under the handicap of interference from similar equipment or from enemy countermeasure activity, and must understand the procedure for reporting the presence and location of such interference.

SUGGESTED SUBSTITUTE

514 Radar Crewman (Other Designated Sets)

GROUND AIRCRAFT OBSERVER (518)

Antiaircraft Fire Control Observer, Flank Station
Ground Observer, Aircraft Warning (AAF)

Sets up and operates an observation post in forward area of a combat zone in order to provide information concerning approach of friendly or enemy aircraft.

Determines the location of site and establishes observation post. Spots and identifies friendly and enemy aircraft by sight and sound and reports their presence by voice, radio, telephone, or other means of communication to aircraft warning service, anti-aircraft gun, or searchlight headquarters. Estimates and reports range, azimuth, altitude, number, and type of observed aircraft. Transmits reports of such weather elements as type and height of clouds, wind direction and velocity, ceiling, and visibility.

May set up, operate, and perform minor maintenance on radio equipment used in transmitting observation.

Must have normal hearing and should have twenty-twenty vision.

SUGGESTED SUBSTITUTE

761 Scout

BASIC (521)

This classification will be used to designate enlisted men in the following categories:

(1) Personnel who are undergoing basic training.

(2) Personnel who have completed basic training and are undergoing unit training, but are not yet qualified for an MOS.

(3) Personnel who have proved unqualified in an MOS previously held and are reassigned for training in another specialty.

SPECIFICATIONS FOR MILITARY OCCUPATIONAL SPECIALTIES

Enlisted men classified under this number will be constantly observed and tested to determine their potentialities, and this knowledge will be utilized to develop these individuals into military occupational specialists.

DUTY SOLDIER I (522)

Gauger, Petroleum Products

Guard-Patrolman

Patrolman, Pipe-Line

Airplane Target Parachute Packer

This is a broad classification covering enlisted men who perform various nontactical and nontechnical duties requiring only a moderate degree of responsibility and skill and involving no specialized training or experience.

Representative duties included in this classification are guarding or patrolling a military installation; patrolling pipe lines to prevent sabotage and to repair small leaks, measuring and recording amounts of petroleum products in storage tanks; making minor repairs to, and folding and packing target plane parachutes.

This classification and specification serial number will be assigned enlisted men who perform such duties regularly.

BALLOON CREWMAN (526)

Balloon Crew Chief

Performs various manual tasks as member of a maneuvering crew to assist in preparing a balloon for tactical operation.

Clears and levels area for the balloon bed. Lays out ground cloths and deflated balloon on the bed preparatory to balloon ascension. Handles mooring lines to move balloon as it is inflated and raised into position and performs related duties when hauling down or bedding down balloon. Performs minor maintenance and repair, such as oiling mooring cables and inspecting and patching balloon fabric and ground cloths.

Knowledge of balloon rigging equipment and ability to tie various kinds of knots desirable.

At supervisory level, is responsible for control, coordination and tactical employment of crew members and for maintenance of balloon and equipment at balloon site.

ANTI-AIRCRAFT RANGE SECTION NCO (527)

Supervises range section personnel in operation and maintenance of fire control instruments and equipment used in automatic computation of data for completion of firing missions against enemy aircraft or ground targets.

Selects location of equipment, including height finder, power unit, radar, and director units, such

as computer, tracker, and altitude converter. Supervises unloading of equipment and its emplacement and camouflage. Examines all equipment to make certain it is in working condition and that cables and connections are securely fastened. Supervises servicing and minor maintenance of all equipment. Synchronizes various units of range section with each other and with guns. Establishes flank spotters to relay information on approach of enemy aircraft and to adjust fire. Sets dials making ballistic corrections on director, including adjustments for muzzle velocity, fuze dead time, parallax, and wind direction. Receives meteorology message at periodic intervals and makes additional corrections based on data contained therein.

SUGGESTED SUBSTITUTE

724 Range Section Operator, Coast Artillery

AIRPLANE HYDRAULIC MECHANIC (528)

Inspects, services, and repairs hydraulic systems used to actuate such aircraft equipment as landing gear mechanisms, wheel brakes, bomb bay doors, oxygen systems, and fire extinguishers.

Visually inspects component units of hydraulic systems including reservoirs, pumps, valves, pressure regulators, pistons, and actuating cylinders to determine that they are functioning properly, that correct amount of fluid is available in reservoir, that hydraulic pressures in various parts of the system meet prescribed standards, and that there are no leaks in the system. Disassembles units of hydraulic systems, analyzes cause of malfunction, and corrects condition by making adjustments and repairs, such as adjusting valves, mending lines when leaks are discovered, and making parts replacements. Cleans all parts of hydraulic systems after repairs have been completed and makes operating test to check functioning.

Tools and equipment include screw drivers, wrenches, pliers, cleaning agents, manometers, and other pressure-testing instruments and hydraulic test stands, and tube forming devices.

Must be familiar with principles of hydraulics and with construction and operation of various airplane hydraulic systems.

SUGGESTED SUBSTITUTE

747 Airplane and Engine Mechanic

WRECKER CREWMAN (529)

Wrecker Operator

Operates as member of crew of wrecker in extricating and salvaging abandoned, damaged, or mired vehicles.

As crew member, drives vehicle on which wrecking equipment is mounted. Operates crane hoist

MILITARY OCCUPATIONAL CLASSIFICATION OF ENLISTED PERSONNEL

or winch to right disabled vehicle in position for towing. Operates acetylene torch to dismantle such sections of vehicles which would prevent movement of equipment. Makes minor repairs and adjustments to permit return of vehicle under own power.

Must be familiar with operation and maintenance of wrecking equipment such as hand and power operated crane hoists, light and heavy jacks, acetylene burning equipment, block and tackle, crow bars, and automobile mechanic's tools. Must be able to recognize and solve various terrain and rigging problems. Should have a good working knowledge of automotive mechanics.

SUGGESTED SUBSTITUTES

014 Automotive Mechanic (Second Echelon)
189 Rigger
660 Tank Mechanic, Minor Maintenance

SALVAGE REPAIR NCO (530)

Superintendent, Canvas Repair
Superintendent, Shoe Repair

Supervises repair for reissue of salvaged clothing, shoes, textiles, leather, rubber, canvas, and webbing in a fixed or mobile salvage repair unit.

Supervises receipt of salvage and its return to user or to depot for reissue after it has been repaired. Inspects and determines reparability of salvaged materials. Allocates work and supplies to sections and shifts. Checks supplies and requisitions them as needed. Instructs repairmen in established procedures and standards for repair of equipment and inspects finished work. Supervises use of sewing machines and shoe repair machines such as finisher, stitcher, sole cutter and skiver, and patcher.

In a mobile unit, aids in determining the placement of the trailers, and supervises their movement and preparation for operation.

SUGGESTED SUBSTITUTES

204 Shoe Repairman
234 Tailor
609 Leather and Canvas Worker

DEMOLITION SPECIALIST (533)

Demolition Technician (AAF)
Engineer, Explosive
Flame Thrower

Destroys or makes unserviceable, by means of explosives, such objects of military importance as bridges, roads, buildings, airdromes, ammunition dumps, fuel dumps, and railways to cover retreat of retiring forces and to delay the advance of the enemy.

Determines size, type, and placement of explosives to be used according to the object to be de-

molished. Inserts detonating fuze or electrical wires. Places explosives in drilled holes or secures explosives to object. Lights fuze with match or connects electrical wires, according to the method of explosion to be used. Inspects and repairs unexploded charges. Must be familiar with the safety precautions to be taken in the handling and application of explosives.

May perform such miscellaneous tasks as blasting stumps or rocks for road construction and blasting underwater debris for the construction of docks and clearance of harbors. May operate flame thrower as tactical situation demands.

Equipment used includes hand powered earth and wood augers, shovel, pick, cap crimpers, and small hand powered electrical generator.

SUGGESTED SUBSTITUTE

729 Pioneer

BALLOON GAS HANDLER (535)

Balloon Gas Chief

Supervises, operates, or assists in the operation of a gas purification unit in the manufacture of helium or hydrogen used in the inflation of balloons.

Charges generator with chemical compounds and operates various valves and pumps to inflate balloon with gas generated. Tests inflated balloon for purity of gas, using metronometer to determine gas content. Inflates balloon by connecting inflation tubes to balloon and gas cylinders and regulating flow of gas. Determines gas pressure in balloon by use of manometer. Lubricates generating equipment. Makes adjustments and repairs with such common hand tools as wrenches, hammers, pliers, and screw drivers. Cleans and replaces pipes, valves, gauges, pistons, and gaskets.

Must have working knowledge of construction, maintenance, and operation of generating equipment and combustion engines.

VOICE INTERCEPTOR (DESIGNATED LANGUAGE) (538)

Identifies and intercepts voice radio transmissions in a designated foreign language by operating a radio receiver and other equipment. Copies or records intercepted transmission and translates into English.

Operates equipment such as receivers, sound recorders, and transcribers. Tunes in radio receiver on an assigned frequency or by searching over a band of frequencies. Records intercepted traffic by hand, typewriter, or by transcribing data from recordings.

Performs first echelon maintenance by inspecting, dusting and biling equipment; making simple

SPECIFICATIONS FOR MILITARY OCCUPATIONAL SPECIALTIES

repairs or adjustments such as changing tubes and adjusting frequencies. Uses simple hand tools.

Must have excellent understanding of designated foreign language in its spoken form and be able to translate it accurately into English. Must have thorough knowledge of military terminology used in foreign language and in English.

SUGGESTED SUBSTITUTES

267 Translator

320 Interpreter

COMMUNICATIONS CHIEF (542)

Communication Sergeant

Communication Technician (AAF)

Radio Sergeant

Signal NCO

Wire Sergeant

Supervises a communication section in the installation, operation, and minor maintenance of two or more of the following communication facilities; wire, radio, or air-ground contact.

Supervises the laying, testing, maintenance, and recovery of wire. Selects location and directs installation of central and substations. Directs telephone, telephone switchboard, telegraph, teletypewriter, or radio operators in receipt and transmission of calls or messages. Superintends air-to-ground, ground-to-air, radio, and fixed airways communication systems. Utilizes other miscellaneous signal devices such as panels, signal lamps, and pyrotechnics. Supervises adjustment, maintenance, and minor repair of equipment used, including radio sets, field telephones, switchboards, and wire lines. Instructs and trains personnel of unit in techniques of field communication. Prepares rosters and distributes work among various teams.

Should be familiar with various means of signal communication such as message center operation, radio network operations, wire construction, telephone switchboard and teletypewriter operation, and miscellaneous communication facilities.

RADIO INTELLIGENCE CONTROL CHIEF (543)

Control Chief

Control Room Operator

Radio Intelligence Control Technician (AAF)

Supervises the installation and operation of a local radio intelligence system composed of direction finding, intercept, and auxiliary equipment employed for the purpose of locating and intercepting enemy transmissions.

Selects and tests location sites as to operational reliability in consideration of factors such as topography, soil conductivity, proximity of metallic conductors, and employment of artificial ground sys-

tems. Selects from available stock most appropriate equipment to be installed. Establishes control procedures including efficient operational lay-outs in nets using radio, telephone, or teletype. Advises and instructs personnel on general technical and operational phases of radio intelligence work.

Must be a qualified Intercept Operator. Must be familiar with the principles of radio, propagation of radio waves, and functioning of antenna systems employed with direction finding and intercept equipment. Must be able to use ionospheric reports effectively in predicting communication frequencies, distances, and hours of reliability. Must be versed in map reading. Must be familiar with method of plotting and evaluating bearings.

SUGGESTED SUBSTITUTES

738 Intercept Operator, G

739 Intercept Operator, J

COXSWAIN, MINE YAWL (546)

Supervises operation of a 26- to 30-foot motor-driven boat known as a mine yawl in connection with planting submarine mines for the protection of coastal waters and harbor areas.

Assists larger boat, such as mine planter and "L" boat, in marking out limits of mine field and plotting newly planted mines. Sounds water depths of newly planted mines and determines distance of submarine mine below water surface. Transmits this information to mine planter. Runs cable from ship which connects submarine mines to shore control stations.

Must be able to make minor repairs to boat engine. Must be a skilled seaman.

SUGGESTED SUBSTITUTES

065 Seaman

823 Coxswain, Harbor Craft

838 Seaman, Landing Craft

MASTER, L BOAT (547)

Pilot, L Boat

Supervises operation of "L" boat engaged in mine laying activities for defense of coastal waters and harbor areas. Steers boat to mine field site and supervises crew in connecting cables of a submarine mine group to a distribution box which is connected to a shore point by means of a multiple conductor cable. Supervises lowering and anchoring of distribution box into position. Keeps boat log and maintains navigation charts. Supervises the general maintenance of the boat and is responsible for the efficient operation of engines and auxiliary equipment.

Must have knowledge of laws of navigation and navigation aids.

MILITARY OCCUPATIONAL CLASSIFICATION OF ENLISTED PERSONNEL

SUGGESTED SUBSTITUTES

065 Seaman

722 Submarine Mine Planter

FABRIC AND DOPE MECHANIC (548)

Repairs or replaces torn or damaged fabric covering of fuselage, wings, elevators, and other surfaces of various types of fabric-covered aircraft.

Examines entire airplane to determine extent of damage and type of repairs. Applies patches to small tears and rips. Makes paper templates and uses them in cutting and fitting canvas over airplane fuselage and control surfaces. Uses sewing machine and needle and thread in preparing fabric covering. Applies several coats of dope and color coat to canvas covering by brush or spray gun.

AIRPLANE WOODWORKER (550)

Inspects, maintains, and repairs wooden aircraft parts or assemblies.

Working from sketches and drawings, makes wood replacement parts for aircraft and other templates for advanced phases of airplane repair. Repairs breaks and splits, using splicing and gluing techniques.

Must have knowledge of the characteristics of various woods, glues, shaping and bounding processes, and be skilled in the use of woodworking machinery.

CONTROL TOWER OPERATOR (552)

Directs aircraft and vehicles operating on a landing area, and aircraft approaching or taking off at a landing area.

Issues such information and instructions to pilots of aircraft as may be necessary for the purpose of preventing collision between aircraft operating on the ground at the landing area, aircraft and vehicles operating on the landing area, aircraft landing and taking off at landing area, and aircraft operating under instrument flight rules at locations where approach control procedures are in effect. Issues such information and instructions as may be necessary to prevent unnecessary delays to aircraft using the landing area and which will permit the proper use of the landing area by aircraft. Notifies and directs crash tender and ambulance to the scene of crashes occurring in the landing area.

Must be able to transmit and receive by ear the letters and numerals of the International Morse Code at a rate of 10 five-letter random code groups per minute without error for a minimum period of 2 consecutive minutes out of 3. Must be familiar with combined radiotelephone procedure and authentication as well as the rules and regulations governing airport control tower operation.

AIRPLANE SHEET METAL WORKER (555)

Airplane Radiator Repairman

Repairs damaged sheet metal structures and light metal fittings of airplanes and reconstructs badly damaged sheet metal parts such as wings, elevators, fairings, cowling, and hatches.

Inspects airplane to locate holes, bulges, dents, cracks, breaks, and loose, broken, or missing rivets. Reinforces damaged or weakened skin on structural members. Rivets patches over small breaks and smooths bulges and dents, using hammer and block. Removes and replaces complete sections of sheet metal skin when damage is extensive in area. Replaces clamps and other small metal fittings on airplane structures. Repairs or replaces wire control cables. Repairs and polishes plexiglass and other plastic transparencies. Occasionally performs such major metal repairs as reconstructing badly damaged wings, elevators, hatches, and metal cowling, and replacing false ribs in wings.

May assist in repairing leaks in airplane radiators.

Uses rivet gun, mallets, punches, and hammer and block.

Must be generally familiar with aircraft construction. Must know properties of various plastics used in glazing airplanes, the operation of the heating oven, and the proper methods of forming, gluing, installing, and polishing.

GLIDER MECHANIC (559)

Makes woodwork, fabric, sheet metal, and cable repair and replacement on gliders.

Constructs, alters, repairs, and refinishes wooden parts of glider craft using woodworking machinery and hand tools in an aircraft woodworking shop. Replaces or repairs damaged metal parts by welding or by cold riveting small patches over breaks. Cuts and fits canvas envelopes over wings or fuselage, sewing by hand or machine, and finishes by applying paint or dope to form a weatherproof surface. Makes necessary inspections before and after flight. May disassemble and assemble demountable gliders.

Should be able to work from sketches and drawings and make repairs and replacements without the use of shop machinery. Should understand specific gravity, moisture content, and seasoning of aircraft woods and plywoods. Should know properties and kinds of glue.

SUGGESTED SUBSTITUTES

550 Airplane Woodworker

555 Airplane Sheet Metal Worker

SPECIFICATIONS FOR MILITARY OCCUPATIONAL SPECIALTIES

PIGEONEER (560)

Pigeon Trainer

Breeds, trains, and cares for a loft of homing pigeons which are to be used as message carriers within or between Army units.

Based on physical and nervous characteristics, selects birds suitable for message carrying. Chooses appropriate pairs and mates them during the breeding period. Treats birds for minor ailments and injuries, administering medicines, remedies, or diets in accordance with diagnosis. Closely supervises the preparation of their food, and cleans lofts. Keeps or supervises keeping of pertinent data concerning pigeons.

HORSE ARTILLERY DRIVER (563)

Drives a pair of horses of an artillery team consisting of one or more pairs in draft which pulls solid tire artillery matériel consisting of guns, caissons, reels, and limbers.

Rides near-horse and controls off-horse by the bridle rein held in the right hand. Coordinates movement of both horses in stopping, starting, changing directions, or in backing up. Harnesses and unharnesses artillery pair. Checks and adjusts harness during march to prevent occurrence of sores or skin abrasions. Waters, feeds, and cleans animals. Removes animals to cover during emplacement and remains with them.

Must understand arm signals which indicate various movements in maneuvering horse drawn artillery vehicles.

SUGGESTED SUBSTITUTES

- 093 Horsebreaker
- 094 Horseshoer
- 235 Teamster
- 710 Stable Sergeant
- 712 Packer, Animal
- 1531 Gun Crewman, Pack Artillery

SPECIAL ASSIGNMENT (564)

This specification serial number will be used only after clearing each specific case with The Adjutant General.

Performs, for a period of 30 days or more, duty of a highly specialized nature which is performed by such a small number of individuals that it does not warrant classification as a Military Occupational Specialty. Title for the specific duty will be entered under Classification in Military Specialties, with any additional information under "Remarks" on W.D.A.G.O. Form No. 20, Soldier's Qualification Card.

PACK DRIVER (565)

Leads pack animals used in transporting ammunition, matériel, supplies, and other cargo necessary for the functioning of field units operating in mountainous or jungle terrain.

Leads single animal during marches while mounted or on foot; rides or walks beside herded animals keeping them in line. Saddles and unsaddles pack animals with a Phillip's pack saddle designed for hanger-positioned or rope-hitched loads. Adjusts loads during marches by tightening ropes or straps.

May assist in preparing and loading cargo and in lashing loads.

Must have more than average strength and be capable of enduring long marches on foot over rough terrain. Must understand care and management of horses or mules. Should be able to tie such knots as diamond hitch, squaw hitch, and other knots or slings.

DUTY NCO (566)

Assists a unit commander by supervising various tasks and field duties such as the policing of buildings and areas, and similar fatigue details.

Aids in the instruction of enlisted men in basic training and in the technique and tactical employment of basic weapons. Performs various supervisory duties in combat.

May perform the duties of a platoon guide or file closer during close order drill.

Must be able to supervise and instruct others.

SUGGESTED SUBSTITUTES

Any enlisted man who has demonstrated that he possesses the necessary qualifications.

ELECTRICIAN, HARBOR DEFENSE (571)

Performs minor maintenance and repair on electrical facilities of harbor defense installations, including port telephone switchboards, telephones, cables, field wire systems, time interval machines, searchlights, and power panels.

Performs organizational maintenance on searchlights, gasoline, and Diesel engines such as lubricating, cleaning, adjusting and replacing defective units, and testing of electrical systems.

Uses such tools as screw driver, voltmeter, ammeter, pliers, wrenches, soldering equipment, automobile mechanic's tools and wire splicing equipment.

SUGGESTED SUBSTITUTES

- 078 Electrician
- 572 Seacoast Gun Data Computer
- 579 Casemate Electrician

MILITARY OCCUPATIONAL CLASSIFICATION OF ENLISTED PERSONNEL

- 633 Fire Control Electrician, Antiaircraft (Automatic Weapons)
634 Fire Control Electrician, Antiaircraft (Gun)
635 Searchlight Electrician

SEACOAST GUN DATA COMPUTER (572)

Supervises an M1 Seacoast Gun Data Computer team of a range section, consisting of an azimuth tracker, elevation tracker, and dial point matchers, in operation of an electrical powered, self-synchronized motor device designed to furnish fire control data for seacoast guns of major caliber.

Instructs members of team in techniques of tracking (following) target and in matching pointers to curves on dials or charts. Detects malfunctioning by understanding principles of operation of electrical input and output data transmission systems and external reaction of dials on instrument.

Should have experience in various phases of Coast Artillery range section work, particularly the duties of plotting.

SUGGESTED SUBSTITUTE

- 724 Range Section Operator, Coast Artillery

WELDER, AIRCRAFT (573)

Welds aircraft assemblies and parts, using gas and electric welding equipment, in connection with repair of aircraft structures.

Repairs aircraft parts and structures such as braces, exhaust stacks, and tubing by welding. Fabricates parts and structures required in maintenance of aircraft. Works within close tolerances of temperatures applied to the metal and to fitting of parts and structures. Sets up and operates welding apparatus and uses such machinery and tools as drill presses, pedestal grinders, power hack saws, hand tools, dies, and taps. Heat treats all aircraft metals to obtain desired hardness and temper characteristics. Prepares and uses working drawing and templates.

SUGGESTED SUBSTITUTE

- 256 Welder, Combination

BOMBSIGHT AND AUTOMATIC PILOT REPAIRMAN (574)

Performs third and fourth echelon maintenance on bombsights and related automatic pilot equipment.

Balances gyros and subassemblies. Adjusts optics for parallax, selects and replaces bearings.

Must be able to diagnose and correct all trouble short of the manufacturing of parts.

REMOTE CONTROL TURRET REPAIRMAN (575)

Performs third and fourth echelon maintenance of remote control turret equipment. Analyzes malfunctioning of remote control turret equipment (main assemblies). Isolates malfunction to the individual parts within assembly. Adjusts, repairs, or replaces faulty parts. Tests assembly in complete system. Uses analyzing tools, meters, instruments, gauges, etc., for location of fault.

Replaces or repairs damaged or worn parts in assembly. Reviews, reassembles with parts provided for third and fourth echelon maintenance. Rebuilds rotating machinery (amplidynes, motors, dynamotors); turrets (compressors, boosters, fire interrupters, gear drive units, ammunition feed assemblies, contour follower mechanisms, dome locking devices, gun chargers); serve-amplifiers (tubes, transformers, resistors, capacitors); sighting stations (pedestal, ring, and periscopic sights, grips and gyro assemblies); computers (parallax units, ballistic units, range units, relay units, altitude and airspeed units, and handset voltage regulators). Cleans, oils, greases, adjusts, inspects, and tests for mechanical and electrical operation of assembly. Tests for operation of assembly in complete system.

FLASH RANGING OBSERVER (576)

Flash Ranging Chief

Flash Switchboard Operator

Observes flash of enemy guns or shell burst of friendly artillery from one of several observation posts to provide means of locating the position of gun or burst.

Transmits the time of occurrence of flash or burst by pressing a button on an electrical device which registers on a dial of flash ranging switchboard at central station. Sets up azimuth instrument over surveyed position. Zeros instrument in established direction. Reads horizontal or vertical angle of flash or burst from ground. Relays information to central station by telephone, where it is plotted and location of gun or burst is determined by intersection with plotted points relayed by other observers. Connects telephone and capacitor unit to wire installations. Tests circuit and equipment by test operation.

At supervisory level, is responsible for the control and coordination of a crew of flash ranging specialists.

SUGGESTED SUBSTITUTE

- 586 Sound Ranging Observer

SURVEY AND INSTRUMENT NCO, FIELD ARTILLERY (577)

Chief of Detail
Fire Control NCO

Instrument NCO
Intelligence Observer

SPECIFICATIONS FOR MILITARY OCCUPATIONAL SPECIALTIES

Supervises, coordinates, and participates in survey operations to locate observation posts, gun positions, and other locations by transit, traverse, or other survey methods in connection with control of individual or massed fire of firing batteries.

Supervises crew in setting up, adjusting, and operating such survey and fire control instruments as transit, aiming, circle, range finder, battery commander's telescope, prismatic compass, alidade, plane table, protractor, scales, and steel tape to determine vertical and horizontal angles, distances, and elevations. Instructs crew in use of slide rule and in making routine trigonometric calculations to compute azimuth and military grid coordinates of points by right and oblique triangle methods. Instructs crew in operation of graphical firing table, which is a type of slide rule designed to furnish initial and corrected firing data to the guns. Checks all data and computations made by survey crew for completeness and accuracy. Supervises crew in additional duties of liaison, scouting, intelligence, and reconnaissance. Supervises battery communication personnel in installation operation, and minor maintenance of wire, radio, and visual signaling.

Should be familiar with wire, radio, and visual signal communications systems.

SUGGESTED SUBSTITUTE

228 Survey and Instrument Man

OBSERVATION STATION OPERATOR, COAST ARTILLERY (578)

Instrument Observer	Spotter
Reader	Tracker
Recorder	

Acts as a member of a team in a seacoast artillery observation station, performing such duties as instrument observing, tracking, spotting, reading, or recording.

Tracks moving targets through an azimuth instrument, stopping momentarily when the timing bell rings to allow the reader to read the azimuth. Reports data to plotting room. Locates with an azimuth instrument the splash of the shells as they hit the water and informs the spotting board operator by telephone of the deviation from the target.

When fire control is accomplished by gun data computers or directors, performs vertical or horizontal tracking by means of telescopes on machine in the same manner as tracking with azimuth instrument or turns hand wheels matching pointers on dials to insure that smooth output of data is transmitted to gun.

CASEMATE ELECTRICIAN (579)

Operates and maintains electrical equipment of a mine casemate system for control of submarine

mines used for protection of coastal waters and harbor areas.

Adjusts relays and rotary switches by making proper measurements and operational tests of parts. Manually adjusts parts to comply with specifications. Tests firing devices by controlled electrical operation to determine if operation is in order. Hooks up power panel, distribution panel, group panel, and selector box. Operates this equipment and determines by means of signal lights and readings of meters if it is functioning properly.

Equipment used includes filler gauges, M-2 test sets, Weston analyzers, bridge meggers, firing device test frames, pliers, and screw drivers.

SUGGESTED SUBSTITUTE

078 Electrician

REMOTE CONTROL TURRET MECHANIC-GUNNER (580)

Loads, aims, and fires turret mounted machine guns in combat. Identifies target aircraft, adjusts sight, tracks target and fires guns when correct sight is obtained. Inspects, cleans, and services flexible machine guns and power turret and locates and corrects electrical and mechanical faults in turret.

Adjusts reflecting type sights for proper collimation, cleans, repairs, and changes desiccant in periscopic sights.

Installs electrical wiring and equipment related to central station fire control system. Adjusts protective circuits and analyzes malfunctioning on fire control and transfer circuits. Changes main assemblies, resistors, condensers, tubes, leads, relays, and contractors in central station fire control system. Performs other first and second echelon maintenance on central station fire control equipment.

SIGNAL SUPPLY TECHNICIAN (581)

Communications Supply Technician (AAF)

Supervises requisitioning, receiving, transporting, storing, issuing, and inventorying of signal equipment.

Directs consolidation of requisitions for signal supplies from lower units and forwarding of requisitions to base depot or other higher supply echelon. Supervises unloading and storage of supplies in accordance with correct warehousing procedures, and in such a manner as to permit inventory, issuance, or shipment with the least confusion. Prepares or supervises upkeep of records. When shipment of supplies arrives, examines equipment for defects, and separates according to requisition. Periodically takes physical inventory of signal equipment of lower units, checking supplies on hand against shipping tickets.

MILITARY OCCUPATIONAL CLASSIFICATION OF ENLISTED PERSONNEL

Must be familiar with all types of signal equipment, know expendibles in signal supply, understand warehousing, and be familiar with Army regulations governing accountability, responsibility, and supply procedure involving action to be taken in the event of loss or damage to Government property.

SUGGESTED SUBSTITUTES

252 Foreman, Warehouse
821 Quartermaster Supply Technician
835 Supply Clerk

AERIAL MINE TECHNICIAN (582)

Maintains, repairs, handles, stores, assembles, modifies aerial mines, and loads in aircraft.

Uses standard hand tools and special mine assembly tools.

May supervise munitions workers in handling of aerial mines.

Must have thorough knowledge of safety regulations in handling and storage of explosives, and loading of mines in aircraft.

ENGINEER SUPPLY TECHNICIAN (583)

Supervises or assists in requisition, receipt, storage, maintenance, and issue of engineer supplies and matériel at a depot, military installation, or Engineer unit.

Supervises loading, unloading, and storage of engineer supplies and equipment. Supervises and assists in taking of inventories, and inspection of engineer property. Supervises packing, crating, and shipping of engineer equipment. Examines matériel for defects. Determines validity of requests for replacement parts and controls issue of same. Maintains appropriate records relative to engineer items.

Must have knowledge of Army regulations governing accountability, responsibility, and supply procedures. Must be familiar with current orders, memoranda, and bulletins relative to engineer supplies. Must be familiar with specifications for packing, crating, and shipping engineer equipment. Should be able to process requisitions for surveying, drafting, reproduction, and engineer equipment and spare parts, and construction materials.

SOUND RANGING OBSERVER (586)

Sound Ranging Chief

Listens for report of enemy guns or for exploding shells of friendly artillery from one of several observation posts.

Connects telephone and capacitor unit to wire installations. Performs operational test on circuit and equipment. Transmits sound at the moment of its occurrence by pressing a button on an electrical device, which starts an electrical recording mechanism

at a central station used to provide means of locating the position of guns or bursts by calculations based upon the time interval in which the sound was recorded from the various positions.

Must be able to judge caliber of different type artillery pieces and be able to distinguish between them by sound of projectile in flight, report of discharge, sound of bursts, or by examination of shell fragments.

At supervisory level, is responsible for control and coordination of a crew of sound ranging specialists.

SUGGESTED SUBSTITUTES

576 Flash Ranging Observer
641 Field Lineman

DUTY SOLDIER III (590)

Airplane Handler	Kitchen Helper
Base Maintenance Man	Laborer
Bath Attendant	Orderly
Cook's Helper	Oven Fireman
Dining-room Orderly	Stable Orderly
Furnace Fireman	Water Tender
Horseholder	

This is a broad classification covering enlisted men who, under supervision, perform various non-specialized and routine duties requiring no special physical qualification and little or no responsibility, skill, or initiative.

Performs organizational duty details such as housekeeping and maintenance of utilities, buildings, and airdromes. Serves as helper to technicians in performance of their duties, and performs other general unskilled laboring tasks.

This classification and specification serial number will be assigned enlisted men who perform such duties regularly.

FOREMAN, FUMIGATION AND BATH (591)

Superintendent, Fumigation and Bath

Supervises movement and operation of a fumigation and bath unit.

Assists in determining location of unit and layout of equipment to insure adequate water supply, drainage, aerial and ground security, and availability to troops. Supervises erection of dressing, undressing, supply, storage, and medical tents. Checks on operation of fumigation, bath and spray equipment, and stations. Supervises adherence to established procedures to insure continuous flow of men and clothing through unit.

May supervise issue and fitting of clothing.

SUGGESTED SUBSTITUTE

706 Fumigation and Bathman

SPECIFICATIONS FOR MILITARY OCCUPATIONAL SPECIALTIES

LINK TRAINER MECHANIC (593)

Inspects, cleans, lubricates, and makes minor adjustments to link trainer equipment.

Inspects trainer and accessory equipment, including control desk, electric motors, and bellows. Operates controls of trainer, tests its communication equipment, and examines condition of electrical wiring. Analyzes malfunctions. Makes such repairs as tightening loose or broken electrical connections, mending leaks in bellows, lubricating electric motors, and replacing defective unit assemblies. Assists instructors in training of flying personnel with the link trainer.

Tools used include screw drivers, wrenches, pliers, and other small hand tools:

Completion of link trainer maintenance course at an Army school or equivalent military experience required.

SUGGESTED SUBSTITUTES

658 Link Trainer Instructor

747 Airplane and Engine Mechanic

ANTIAIRCRAFT ARTILLERY MACHINE GUN CREWMAN, SP (597)

Gunner, AA

Gunner, Machine, AA

As a member of a crew, performs various duties in operation and maintenance of a machine gun battery mounted on a half-track and utilized for protection of advanced combat elements against low-flying hostile aircraft.

Services machine guns, feeding belts into containers, watching for stoppages, and immediately eliminating their cause. As gunner, operates power-controlled turret. By manipulation of control column, swings turret in direction of enemy aircraft. Aims by means of a reflector sight and fires guns by pressing buttons in side of control column. Maintains guns and other equipment in good working order, greasing, oiling, and cleaning working parts.

May drive half-track, operate radio, and assist in lowering turret to ground for use as stationary mount.

ANTIAIRCRAFT ARTILLERY NCO, SP WEAPONS (598)

Commands crews operating self-propelled machine guns and automatic weapons employed in the protection of advanced combat elements against low-flying hostile aircraft.

Supervises technical employment of guns, designating field or direction of fire, type of target, and approximate location of firing position. Insures that all avenues of approach for enemy aircraft

are covered. Supervises tactical and mechanical training of various gun crews.

SUGGESTED SUBSTITUTES

597 AAA Machine Gun Crewman, SP

601 AAA Automatic Weapons Crewman

ANTIAIRCRAFT ARTILLERY AUTOMATIC WEAPONS CREWMAN (601)

Ammunition Handler

Antiaircraft Artillery NCO,

Automatic Weapons

Cannoneer

Gunner, Antiaircraft

Gunner, Machine, Antiaircraft

As a member of a gun crew, performs one or more of the following duties incident to firing and maintenance of a mobile 40-mm gun, a self-propelled 37-mm gun, or similar pieces used for protection of combat elements or strategic areas from enemy aircraft or mechanized vehicles.

Unlimbers gun from prime mover, mounts piece on jacks, extends outriggers to provide balance, and obtains equilibrium by adjusting jack levelling bubbles, and digs emplacement. Assists in maintenance and service of the piece. Passes ammunition from prime mover or cache to loader, or loads clips and places them around gun position. Inserts clips into autoloader, adjusts firing lever, and if firing with director control fires by pressing on foot pedal. When firing without electrical director control, operates azimuth or elevation forward area sights, tracking target by sighting through direct fire sights and manipulating cranks rotating gun. As elevation tracker, fires piece by pressing on foot pedal. Sets up and operates machine gun or acts as ammunition man for machine gunner covering with fire dead space immediately over gun position. Acts as lookout, reporting approach of enemy planes.

May drive prime mover as gunner, supervises crew going into and out of action, and in the emplacement of the piece. When firing without director control, indicates targets, gives or repeats commands to fire, and adjusts fire by verbal order. When firing with director control, roughly aligns gun and director, and throws gun into automatic control by operating gun sleeving clutch and elevation switch. Checks bore sighting, and pulls rope tied around foot of firer when command to cease firing is given. Tracks target, using direct fire sights, operates deflection handle, estimating lateral and vertical leads and applying them to sighting system, loads automatic loader, or drives half-track. May operate 37-mm gun and two machine guns mounted on a half-track, tracking, loading, and firing.

MILITARY OCCUPATIONAL CLASSIFICATION OF ENLISTED PERSONNEL

At supervisory level, commands gun and range section specialists and is responsible for emplacement, conduct of fire, and fire adjustment while engaging targets.

Should be acquainted with mechanical functioning and tactical use of gun and the reduction of stoppages. Should be familiar with duties of all members of the crew.

SUGGESTED SUBSTITUTES

2601 AAA Gun Crewman

597 AAA Machine Gun Crewman, SP

LIGHT MACHINE GUNNER (604)

Ammunition Bearer
Machine Gun NCO

Loads, aims, cleans, maintains, and fires a light machine gun to provide automatic direct fire against enemy personnel and light armored vehicles.

Estimates ranges and sets sights. Field-strips weapon with combination tool to replace worn or damaged parts or to reduce stoppages.

At supervisory level, is responsible for control and coordination of machine gun squads and tactical employment of weapons.

Must be capable of making rapid and accurate range estimation and determining the speed of moving targets. Must be able to use hand weapons, such as rifle, automatic rifle, carbine, pistol, bayonet, trench knife, and hand grenades. Must be proficient in the techniques of hand-to-hand fighting.

SUGGESTED SUBSTITUTE

605 Heavy Machine Gunner

746 Automatic Rifleman

HEAVY MACHINE GUNNER (605)

Ammunition Bearer
Antiaircraft Machine Gunner
Machine Gun NCO

Loads, aims, cleans, maintains, and fires heavy machine gun to provide automatic direct or indirect fire in support of other tactical units breaking through enemy defense, harassing enemy troops and positions, and in defense against enemy aircraft, light armored vehicles, and enemy counterattack.

Estimates ranges and sets sights. Field-strips the weapon with a combination tool to replace worn or damaged parts or to reduce stoppages. Fires the weapon from a fixed or mobile position at fixed or moving targets, using either direct or indirect fire.

At supervisory level, is responsible for control and coordination of machine gun squads and tactical employment of weapons.

Must be capable of making rapid and accurate range estimation, and determining the speed of

moving targets. Must be able to fire on moving targets such as airplanes without use of sights, by observation of tracer. Must be able to use hand weapons, such as rifle, automatic rifle, carbine, pistol, bayonet, trench knife, and hand grenades. Must be proficient in the techniques of hand-to-hand fighting.

SUGGESTED SUBSTITUTES

604 Light Machine Gunner

746 Automatic Rifleman

LIGHT MORTAR CREWMAN (607)

Ammunition Bearer Mortar Gunner
Mortar Assistant Mortar NCO

Sets up, aims, and fires a 60-mm mortar to place explosive or toxic gas shells upon enemy positions.

Emplaces mortar and sights in on aiming stake. Adjusts mortar for elevation and deflection. Uses firing tables to determine necessary charge and adjusts charge of mortar shell by removing necessary number of increments to give correct auxiliary propelling force. Fires weapon by dropping shell into mortar to strike firing pin.

At supervisory level, is responsible for control and coordination of mortar crews and tactical employment of mortars.

Must be able to estimate range and deflection rapidly and accurately.

SUGGESTED SUBSTITUTE

1607 Heavy Mortar Crewman

GUN CREWMAN, COAST ARTILLERY (608)

Ammunition Chief Gun Commander
Cannoneer Gun Pointer
Chief of Breech Gunner
Fuze Setter Range Setter

As a member of a Coast Artillery gun crew of major caliber, assists in operating a fixed, semi-fixed, or railway artillery piece to bring fire to bear against enemy seacraft in coastal frontier defense waters.

Performs one or more of the following operations: Keeps gun pointed at target, setting range on range scale and the deflection from an established position on the panoramic sight, or uses a system of matching pointers on dials attached to gun to effect same result. Opens and closes breech manually or by employing power mechanism. Inspects and cleans projectiles, to prepare them for loading. Places projectiles on ammunition table, truck, or platform, and by hand, crane, or hoist moves to rammer tray. Seats projectile by hand or power ramming. Removes powder charge from container and inserts in breech recess by hand or by ramming. Inserts primer in firing mechanism block. Fires

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piece by pulling handle of firing magneto or by pulling hand lanyard. After misfire removes unfired round using rammer and rammer staff. Inspects bore and swabs with water. Cleans breech and firing mechanism block. Assists in such maintenance operations as cleaning, oiling, and rustproofing vital parts of gun.

At supervisory level, is responsible for control of operations and tactical employment of gun crew and gun.

SUGGESTED SUBSTITUTES

- 844 Gun Crewman, Light Artillery
- 845 Gun Crewman, Heavy Artillery
- 1531 Gun Crewman, Pack Artillery

LEATHER AND CANVAS WORKER (609)

Gas Mask Repairman
Upholsterer

Lays out, cuts, sews, cements, and fits leather and canvas materials in the manufacture or repair of tents, tarpaulins, slings, seat covers, tops, and covers for searchlights and guns.

Sews parts together by hand or on sewing machine. Operates and maintains leather and canvas working machinery.

Uses leather and canvas working tools.

Should be familiar with care and preservation of leather and canvas materials. Should be familiar with use of springs, padding, and covering materials for repair of motor vehicle or furniture upholstery.

(For shoe repair, see Shoe Repairman, 204; for saddle and harness repair, see Saddle and Harness Maker, 192.)

SUGGESTED SUBSTITUTES

- 200 Sewing Machine Operator
- 204 Shoe Repairman
- 234 Tailor

ANTITANK GUN CREWMAN (610)

Ammunition Bearer	Gun Commander
Antitank Gunner	Radio Tender
Antitank NCO	Tank Destroyer Crewman
Cannoneer	

Operates as member of crew of self-propelled or towed antitank gun used in destruction of enemy tanks and other armored vehicles.

As crew member drives vehicle on which gun is mounted or by which gun is towed. Lays, aims, and fires gun in accordance with fire orders from gun commander. Loads gun with ammunition. Maintains radio telephone communication with other elements.

Equipment includes antitank guns, self-propelled or towed, such as the 3-inch, 75-mm, 37-mm, and 57-mm and light and heavy machine guns.

At supervisory level, is responsible for control of operations and tactical employment of gun crews and guns.

Must be familiar with driver maintenance.

SUGGESTED SUBSTITUTES

- 607 Light Mortar Crewman
- 1607 Heavy Mortar Crewman
- 1736 Light Tank Crewman
- 2736 Medium Tank Crewman

AERIAL GUNNER (611)

Operates a hand-held or turret mounted machine gun in airplane to protect airplane from enemy attack.

Loads, charges guns, aims, fires, and reloads. Strips and reassembles standard machine guns used on tactical bombers. Makes preflight and postflight inspections and necessary adjustments. Inspects for worn or broken parts, and performs routine maintenance on such guns.

Must be able to manipulate smoothly and accurately the type of turret on which he has been specifically trained, use sights correctly, charge guns, fire, and reload. Perform first echelon maintenance on his turret, including preflight and postflight inspections.

Must be qualified to fly at high altitudes and use oxygen and interphone equipment.

AIRPLANE ARMORER-GUNNER (612)

Inspects, repairs, and maintains all aircraft armament, including bomb release mechanism, airplane cannons, machine guns, auxiliary equipment, and may repair other weapons.

Makes daily inspections and running repairs to equipment, such as bomb racks, bomb release mechanisms, aerial gun sights, flare racks, flare rack controls, and chemical carrying release mechanisms. Installs armament equipment on airplanes. Fuzes and places bombs in bomb racks; disassembles guns and inspects them for worn, broken, or defective parts. Makes necessary replacements or repairs and reassembles weapons after thoroughly cleaning and oiling their working parts. Mans a machine gun position if combat occurs during flight.

CHIEF BALLOON RIGGER (615)

Supervises a group of balloon crewmen and riggers in preparing, inspecting, and maintaining a barrage balloon and balloon bed.

Lays ground mooring cable and handling lines. Unrolls and lays out balloon envelope and checks external rigging for proper location. Inflates balloon with air and enters to examine envelope for deterioration and leaks, and to check gas valves and air scoop. Inspects balloon daily before and

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after ascension. Supervises repair of envelope, internal and external rigging, and accessories. Supervises hand and machine sewing repair work on balloon envelopes.

Equipment used includes straight and curved needles, rubber rollers, wire brushes, soldering iron, blow torch, files, cutting pliers, cable cutter, cable splicer, sewing machine, mallets, and vise.

SUGGESTED SUBSTITUTE

619 Balloon Rigger

ALTITUDE CHAMBER TECHNICIAN (617)

Assists an aviation physiologist in the indoctrination and training of student flying personnel and air crews in high altitude flying by means of a fixed or mobile altitude chamber in which personnel are subjected to controlled changes in air pressure similar to those experienced in flying at various altitudes.

Instructs and supervises trainees in fitting oxygen masks and in adjusting flow of oxygen to the masks as air pressure is decreased on "ascent" and increased on "descent." Closely observes trainees during simulated flights for symptoms of anoxemia. Operates controls which change air pressure inside chamber. Performs minor maintenance on oxygen equipment including masks, oxygen flow regulators, and air and oxygen lines. Replaces defective parts, using screw driver and other hand tools. Keeps records in connection with the chamber operation showing hours and characteristics of operation, individual training records, and supplies used.

BALLOON RIGGER (619)

Balloon Envelope Repairman

Inspects, repairs, and maintains barrage balloons and balloon bed.

Attaches external and internal rigging to balloon. Rigs balloon internally to obtain proper rigidity when inflated. Adjusts pilot car and cable. Performs cordage, cable, and fabric work. Repairs envelope by applying patches and sewing breaks by machine or hand.

Equipment used includes straight and curved needles, rubber rollers, wire brushes, soldering iron, blow torch, files, cutting pliers, cable cutter, cable splicer, sewing machine, mallet, and vise.

PARACHUTE RIGGER AND REPAIRMAN (620)

Parachute Packer

Parachute Repairman

Inspects, repairs, rigs, and packs parachutes, and makes repairs to leather and cloth flight clothing.

Examines canopy, rigging, suspension lines, pack, and harness of parachute for dirt, tears, rips, and strains. Repairs small rips and tears in canopy

with needle and thread or by use of sewing machine. Inspects and repacks parachutes that have been opened in service for repairs. Examines leather jackets and helmets, electrically heated clothing, and other flight clothing and makes necessary repairs.

FINANCE TECHNICAL CLERK (622)

In a finance disbursing or administrative office, processes vouchers for pay, allowances, and travel expenses of military and civilian personnel, and for supplies and nonpersonal services.

Maintains schedules of collections and disbursements, cash book, cash blotter, accounts current, and related papers. Decides, within limits prescribed by the disbursing officer, questions of legality, propriety, form, procedure, and method of payment. Recommends new procedures or the revision of existing procedures. May supervise and instruct enlisted men and civilians in finance activities.

Must have thorough knowledge of appropriate Army regulations, laws, and procedures pertaining to the use and disbursement of funds.

(To be assigned only to Finance Department duties.)

SUGGESTED SUBSTITUTES

623 Finance Typist-Clerk

624 Finance Clerk

FINANCE TYPIST-CLERK (623)

In a finance disbursing or administrative office, computes, processes, and types vouchers for pay, allowances, travel expenses, supplies, and nonpersonal services.

Maintains schedules of collections and disbursements, cash book, cash blotter, accounts current, and related papers. Types correspondence, reports, and other pertinent material.

Must be able to type at the rate of approximately 35 words per minute. Should be familiar with appropriate laws, Army regulations, procedures and established policies governing disbursement of money.

(To be assigned only to Finance Department duties.)

SUGGESTED SUBSTITUTES

405 Clerk-Typist

624 Finance Clerk

FINANCE CLERK (624)

In a finance disbursing or administrative office computes and processes vouchers for pay, allowances and travel expenses of military and civ-

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ilian personnel, and for supplies and nonpersonal services.

Prepares schedules of collections and disbursements, accounts current and related papers, and maintains cash book, cash blotter and other disbursing records.

Should be familiar with Army Regulations, War Department publications, and established policies governing the disbursement of appropriated funds.

(To be assigned only to Finance Department duties.)

SUGGESTED SUBSTITUTES

055 Clerk, General

623 Finance Typist-Clerk

OFFICER CANDIDATE (625)

This Specification Serial Number is authorized for reporting purposes only and will not be used for classification of enlisted personnel.

STUDENT (629)

This Specification Serial Number is authorized for reporting purposes only and will not be used for classification of enlisted personnel.

INTELLIGENCE NCO (631)

Intelligence Specialist (AAF)

Assists in collection, evaluation, interpretation, and distribution of information of enemy and counterintelligence activities and the safeguarding of military information.

Collects, evaluates, interprets, and disseminates all enemy information secured by intelligence and reconnaissance units. Maintains situation maps such as order of battle, flak, and radar maps, aerial photographs, and records regarding enemy location, strength, and probable intentions. Assists in interrogation and search of enemy prisoners. May maintain liaison with other intelligence services and establish intelligence observation posts. May assist in the preparation for briefing and interrogation of flying personnel.

Should be familiar with the use of drafting instruments, balopticons, projectors, and mimeograph machines.

Must be capable of instructing others in intelligence functions, observation and counterinformation activities and in conduct to be followed in the event of capture. Must be capable of preparing maps and sketches and interpreting aerial photographs.

Must be able to recognize enemy aircraft and armored vehicles, and flags, insignia, and uniforms

of allied and enemy troops. Should be familiar with the interpretation of aerial photographs.

SUGGESTED SUBSTITUTES

076 Draftsman, Topographic

733 Reconnaissance Car Crewman

761 Scout

814 Operations NCO

FIRE CONTROL ELECTRICIAN, ANTI-AIRCRAFT (AUTOMATIC WEAPONS)

(633)

Maintains anti-aircraft fire control equipment used with 37-mm and 40-mm automatic weapons, including directors and data transmission systems.

Makes regular inspections and tests to determine operating condition of fire control equipment. Makes certain that all dials on director register properly, that mechanism is kept clean, and that handwheels turn freely. Repairs or replaces defective or worn wire, gears, switches or other parts within limits imposed. Inspects and supervises the maintenance of other electrical equipment in battery. Makes adjustments, using such testing instruments and tools as voltmeter and ammeter, insulated screw driver, pliers, snips, soldering iron, and specialized wrenches in director tool kit.

SUGGESTED SUBSTITUTES

634 Fire Control Electrician, Anti-aircraft (Gun)

635 Searchlight Electrician

FIRE CONTROL ELECTRICIAN, ANTI-AIRCRAFT (GUN) (634)

Maintains anti-aircraft fire control equipment used with 90-mm, 105-mm, 120-mm, and 3-inch guns, including directors, data transmission systems, and height finders.

Makes regular inspection and tests to determine operating condition of fire control equipment. Makes certain that all dials register properly, that mechanism is kept clean, that handwheels turn freely, and that all wiring connections are secure. Repairs or replaces defective or worn wire, gears, switches, or other parts.

Inspects and supervises the maintenance of other electrical equipment in unit. Makes necessary adjustments using such testing instruments as voltmeter and ammeter.

Uses a wide variety of tools including insulated screw driver, pliers, snips, soldering iron, and specialized wrenches.

SUGGESTED SUBSTITUTES

633 Fire Control Electrician, Anti-aircraft (Automatic Weapons)

635 Searchlight Electrician

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SEARCHLIGHT ELECTRICIAN (635)

Maintains anti-aircraft searchlight and accessory equipment including searchlight, control station, power generator, and connecting cables.

Makes regular inspections and tests to determine operating condition of equipment. Lubricates and cleans or checks internal mechanisms including panel board, brushes, electrical contacts, motors, and gears. Cleans mirror with special fluid provided for that purpose. Diagnoses cause of faulty operation tracing out short circuits and replacing defective or worn parts.

Uses variety of testing meters including voltmeter, and ammeter, and hand tools including wire splicing set, insulated screw driver, pliers, file, chisel, and soldering iron.

SUGGESTED SUBSTITUTES

- 571 Electrician, Harbor Defense
- 633 Fire Control Electrician, Anti-aircraft (Automatic Weapons)
- 634 Fire Control Electrician, Anti-aircraft (Gun)

BALLOON ARMORER (639)

Installs, maintains, inspects, and repairs all lethal devices and accessory equipment used in a coast artillery barrage balloon organization.

Disassembles and assembles bomb units, shock absorber units, cable cutter units, stabilizing units, inertia links, and other assemblies or rigging. Inspects to locate mechanical maladjustment. Cleans, lubricates, and removes moisture or rust. Repairs or replaces defective parts such as firing pins, plugs, shear wire, weight springs, shutters, arming pins, swivels, cutters, and shackles.

Uses wrenches, pliers, screw drivers, soldering iron, hand press, and combination tool used with cable cutter to adjust parts.

FIELD LINEMAN (641)

Field Wire Chief
Field Wire NCO
Lineman

Works as member of team in laying, maintaining, and taking up the wire or cable of a telephone or telegraph communication system.

Runs wire along the ground by guiding it from a wire reel of a wire truck. Fastens wire to poles, stakes, or trees, and carries it across roads or other obstructions by burying it in a shallow ditch or suspending it from trees, telephone poles, or lance poles. Locates and determines the cause of line trouble such as opens, shorts, and grounds by testing wire at intervals. Makes appropriate repair, such as splicing breaks and cutting out defective wire and splicing.

May operate a portable field telephone switchboard. May establish telegraph circuits by superimposing them on existing telephone circuits, using repeater coils. May drive telephone repair truck.

Equipment used includes wire cutters, pliers, wire, insulators, climbers, lineman's belt, wrench, hammers, reel carts and reels, friction tape, loading coils, field telephones, switchboard, and repeating coils.

SUGGESTED SUBSTITUTES

- 238 Lineman, Telephone and Telegraph
- 650 Telephone Switchboard Operator

FIRE CONTROL INSTRUMENT OPERATOR, FIELD ARTILLERY (645)

Computer, Fire Director
Horizontal Operator
Vertical Operator

Prepares firing chart for vertical and horizontal control, using protractor scale and straightedge showing battery positions, check points, base points, targets, elevations, front lines, minimum and maximum ranges, and zones or sectors of supported units.

Performs any one or more of the following operations: calculates distances between points, calculates coordinates from field notes, converts degrees and minutes to mils, calculates elevation, reads horizontal angles between guns to targets and other points, interprets metro message, calculates correction factors for wind and weather components, or alerts firing battery by telephone and receives and transmits fire orders. In a firing battery, sets up and operates such fire control instruments as aiming circle and range finder. Performs survey operations when required.

Uses a special Manheim type slide rule called graphical firing table to assist battery, battalion, or higher commander in making trigonometric and ballistic calculations to obtain data for the preparation and conduct of artillery fire.

SUGGESTED SUBSTITUTES

- 228 Survey and Instrument Man
- 230 Surveyor, Topographic
- 243 Geodetic Computer

RADIO REPAIRMAN, AIRCRAFT EQUIPMENT (647)

Inspects, installs, tests, and makes major repairs on radio transmitting and receiving instruments and related equipment in connection with air-ground or interplane communication.

Tests equipment, using such instruments as voltmeter, ohmmeter, tube testers, and oscilloscope.

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Isolates and corrects defects either by repairing units (including resistors, condensers, and wiring) or by replacing parts. Improvises or makes substitutions for defective parts when replacements are not available.

Uses small machine and hand tools including drill press, electric soldering iron, screw drivers, and special wrenches.

Must have general knowledge of the theory of operation of radio transmitter, receivers, and related equipment including antennas, control boxes, and power supply. Must be able to perform third and fourth echelon maintenance on aircraft radio equipment such as liaison sets, HF command sets, VHF command set, radio compass, interphones, and marker beacon.

SUGGESTED SUBSTITUTES

- 648 Radio Repairman
- 649 Radio Repairman, Fixed Station

RADIO REPAIRMAN (648)

Radio Electrician

Radio Repairman, FM Equipment

Installs, inspects, tests, and repairs amplitude modulated or frequency modulated radio transmitting and receiving instruments and related equipment.

Tests equipment using such instruments as voltmeter, ohmmeter, tube testers, and oscilloscope. Isolates and corrects defects either by replacing parts or by repairing units including resistors, condensers, and wiring. Improvises or makes substitutions for defective parts when replacements are not available.

Uses small machine and hand tools including drill press, electric soldering iron, screw drivers, and special wrenches.

Must have general knowledge of the theory of operation of radio transmitters, receivers, and related equipment including antennas, dynamometers, control boxes, and power supply.

SUGGESTED SUBSTITUTES

- 647 Radio Repairman, Aircraft Equipment
- 649 Radio Repairman, Fixed Station

RADIO REPAIRMAN, FIXED STATION (649)

Boehme Installer

Chief Radio Repairman

Receiver Attendant

Maintains and repairs fixed radio transmitting and receiving equipment in proper operating condition.

Tests circuits, tubes and other parts of equipment. Locates source of and diagnoses malfunctioning. Makes adjustments, repairs (including im-

provisations), replacements and substitution in items of equipment such as antennas, audio frequency units, radio frequency units, power supply, and control accessories.

Uses precision electrical and electronic instruments and various types of small hand and light machine tools.

Must be able to make all necessary adjustments or repairs of fixed radio station transmitting and receiving equipment, including accessories.

Must be able to tune transmitter channels to prescribed frequencies.

Must be able to locate and counteract electrical interferences.

TELEPHONE SWITCHBOARD OPERATOR

(650)

Switchboard Operator

Telephone Operator, Field

Installs, operates, and performs minor maintenance on portable magneto type switchboards and common battery switchboards.

Connects wires laid by linemen to switchboard. Operates switchboard, answering calls and making necessary connections to complete circuit. Follows prescribed procedure in answering and making calls. Keeps station log and reroutes traffic if normally used circuits fail. Performs minor maintenance on equipment, replacing worn out batteries, and repairing loose or disconnected wires and dirty connections.

May install short local lines, from switchboard to circuit. May climb poles, splice field wire, and make ties.

Uses simple hand tools such as insulated screw driver, pliers, and knife.

Must be able to maintain field wire lines and read traffic and circuit diagrams.

SUGGESTED SUBSTITUTES

- 309 Telephone Operator
- 641 Field Lineman

SUBMARINE MINE LOADER (656)

Ammunition Chief

Mine Assembler

Works as member of group engaged in loading high explosives and necessary detecting and detonating devices within submarine mine cases used for protection of coastal waters and harbor areas.

Packs various types of high explosives within mine cases according to prescribed plan. Screws electric terminals, resistors, condensers, and relays on base boards and solders wire to proper terminals. Assembles electrical devices into one unit and screws outlet wire to unit. Places assemblies into mine cases according to prescribed plan. Assists in

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the manual work involved in carrying high explosives to and from magazines. Scrapes, cleans, and paints mine cases and buoys when not engaged in mine loading operations.

Equipment used includes blocks and falls for movement of mine cases, hammers, wrenches, pliers (made of brass to prevent sparks), high explosive charges, and soldering iron.

Must be familiar with safety regulations governing handling of high explosives.

SUGGESTED SUBSTITUTES

- 078 Electrician
- 714 Mine Supply Maintenance Technician
- 722 Submarine Mine Planter

MEDICAL AIDMAN (657)

- | | |
|------------------|------------------------|
| First-Aid Man | Medical Basic |
| Hospital Orderly | Medical Corpsman (AAF) |
| Litter Bearer | |

Performs various duties to assist technicians in medical department activities.

Administers first-aid treatment to sick, injured, or wounded. Treats minor injuries and wounds, such as cuts, blisters, contusions, and lacerations, applying medicants and bandaging wounds. Makes and applies arm or leg splints, treats patients for shock, and stops bleeding by approved methods. Lifts patient onto litter, and carries to aid station, ambulance loading point, or collecting station.

Performs routine duties in the care and treatment of patients, taking temperature and pulse readings, bathing and feeding patients, and preparing patients for operations. Makes beds, cleans and washes equipment and floors, and assists in sterilizing instruments. Performs related duties as directed.

Must have received medical basic training.

LINK TRAINER INSTRUCTOR (658)

Instructs and trains students or qualified pilots in technique of instrument flying, using the Link trainer.

Explains operation of equipment to trainee and demonstrates use of its controls and instruments and difference between operating characteristics of trainer and actual aircraft. Assigns a series of progressive practice exercises to trainee which includes simulated cross-country flights. During practice periods and test exercises, transmits simulated radio beam signals to trainee and operates equipment to give him flight instructions similar to those received in flight by radio from ground stations. Evaluates trainee's performance and maintains records pertaining to operation of the trainer. Inspects trainer prior to use, and operates the controls in order to

determine whether it is functioning properly. Cleans and makes minor adjustments to the trainer.

SUGGESTED SUBSTITUTE

- 593 Link Trainer Mechanic

INSTRUCTOR (DESIGNATED SUBJECT) (659)

- Educational Reconditioning Instructor
- Technical Instructor (AAF)

Instructs military personnel in one or more military and general education subjects taught at an Army service school, replacement training center, or other military installation.

This Military Occupational Specialty is authorized only when personnel permanently assigned to such instructional duty are not qualified in a military occupational specialty related to the course of instruction. (See par. 16b, sec I.)

TANK MECHANIC, MINOR MAINTENANCE (660)

- Assault Gun Mechanic, Minor Maintenance
- Tank Engine Mechanic, Minor Maintenance

Inspects and performs minor maintenance on tanks, tank destroyers, and other full-track-laying vehicles.

Examines armor plate for holes, breaks, or loose bolts. Checks the condition of the lighting, lubrication, fuel, and ignition systems, as well as other units. Operates, services, and adjusts all moving parts including engine, transmission, tracks, torsion bar suspension, steering brakes and other controls, turret traversing mechanism, gun mounts, and cannon. Assists in diagnosing malfunctions. Removes and replaces worn or damaged sections of track and torsion bar suspension. Removes bolted armor plate to repair internal units. Assists in removal and replacement of transmission and final drive. Performs minor engine repairs. Performs periodic maintenance, checks and replaces such accessible engine parts as spark plugs, generators, starters, and fuel pumps.

Uses such tools as wrenches, pliers, hammer, screw driver, cold chisel, and other common mechanic's tools.

At supervisory level is responsible for control and coordination of maintenance activities of a tank maintenance crew.

SUGGESTED SUBSTITUTE

- 014 Automotive Mechanic (Second Echelon)

AERIAL TORPEDO MECHANIC (662)

Assembles and installs aerial torpedoes used on combat missions and services those used for training.

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Inspects and installs gyroscopes, exploder mechanism, and head. Tests air pressure in chamber and checks fuel supply. Tests Lanyard and safety wire. Checks main control valves connected with air chamber. Places torpedoes on bomb cart, transports them to airplane, and installs them on torpedo racks. Disassembles, lubricates, adjusts, and replaces worn parts of torpedoes that have been returned from training missions.

Must be able to make mechanical adjustments to close tolerances.

FUEL CELL REPAIRMAN (665)

Inspects and repairs self-sealing rubber airplane fuel tanks.

Removes empty fuel tanks from airplane, usually from wing compartments. Inspects exterior and interior surfaces of tank for cracks, rips, and holes. Patches rubber, leather, plywood and metal containers composing fuel tank by using materials and tools required. Determines whether damage to tanks is too extensive to be repaired and recommends salvage. Repairs other equipment such as life rafts and rubber flying boots.

Must be qualified to do sheet metal work. Should be thoroughly familiar with methods of treating rubber, leather, plywood, and metal materials used in fuel tanks.

MESSAGE CENTER CLERK (667)

Code Clerk	Messenger-Dispatcher
Message Center Chief	Panel and Code Clerk

Receives and logs incoming and outgoing messages, communications, and publications in a message center and distributes them in accordance with prescribed procedures.

Records time on incoming and outgoing communications, messages, and publications, and distributes incoming messages according to a distribution code. Maintains a log indicating date and time of receipt, means of transmission and time of delivery of messages. Encodes and decodes messages in accordance with standard operating instructions.

Must have a general knowledge of the methods of operation of signal communication agencies, must have a thorough knowledge of the staff organization of his own unit, and a general knowledge of the organization of other units with which signal communication is maintained.

May act as a messenger. May drive a light truck. Knowledge of typing desirable.

At supervisory level, is responsible for control and coordination of message center operations and personnel.

SUGGESTED SUBSTITUTES

055 Clerk, General

405 Clerk-Typist

MILITARY POLICEMAN, OCCUPIED TERRITORY (669)

Enforces military laws, regulations and ordinances, and local laws; maintains order; and controls individuals and traffic in territory in which United States forces are exercising military government.

Arrests offenders against the military government. Seizes firearms, explosives and other contraband articles. Seizes and guards funds. Seizes and seals records and archives. Guards captured matériel and installations. Controls, reinforces, or supplants local police in the maintenance of public order. Prevents or suppresses espionage, sabotage, and rioting.

Assists in reducing areas of resistance, including the elimination of guerrilla activities. Assists in the protection against vertical envelopments, commando raids, and against any attack on vital installations, including lines of communications. Assists in the care, control and evacuation of refugees and local inhabitants.

May assist in the defense of command posts and operation of prisoner of war collection points and straggler lines when attached to combat teams during initial phase of occupation.

Must have knowledge of the use and care of machine guns, carbines, rifles, pistols, shotguns, and submachine guns.

Should possess tact, diplomacy, good judgment, physical vigor and a commanding appearance. Should be a high school graduate. Ability to speak one or more foreign languages is desirable and preference should be given men who have traveled or resided in a foreign country.

Must be capable of acquiring working knowledge of the language and customs of the areas to which assigned.

MASTER GUNNER, COAST ARTILLERY (670)

Performs such duties as surveying, mapping, drafting, orientation, gunnery, and photography in a fixed seacoast defense area or in a mobile unit.

Plans, supervises, and executes field survey operations, using surveyor's instruments to locate gun positions, observation stations, and similar points by transit traverse or other survey methods. Measures base line between base end stations by running a line of levels to a point of known elevation and making necessary computations to obtain accurate horizontal distance between stations. Determines azimuth of base line by running a transit

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traverse. Checks directions by making solar or stellar observations, and computes direction by astronomical methods. Computes distances and directions from coordinates after they have been accurately established. Converts grid coordinates into geographical coordinates and vice versa. Prepares charts, maps, and tables. Makes sketches and detailed drawings, blueprints, and tracings of buildings, machine parts, or devices. Places local plane grids, standard military grids, and geographic grids on maps. Keeps post map and battery emplacement books current. Prepares charts and scales for all correction devices used for coast artillery fire control. Sets up and operates a meteorological station for fixed and mobile units to obtain wind velocity, direction, and temperature in order to compute correction factors for nonstandard weather conditions to be used in firing. Takes photographs during target practice. Develops and marks films to show deviation of bursts from target. Operates photolaboratory, using ordinary darkroom procedures.

Must have good mathematical background and be able to solve computations involving plane and spherical trigonometry. Must be able to use slide rule and use such tables as logarithm, grid, firing, meteorological, surveying, ephemerides, and tables pertaining to projection of maps.

SUGGESTED SUBSTITUTES

227 Surveyor
230 Surveyor, Topographic
671 Master Gunner, Antiaircraft (Gun)
1076 Observation Draftsman

MASTER GUNNER, ANTIAIRCRAFT (GUN) (671)

Performs a variety of duties in connection with operations and survey functions of an antiaircraft gun unit.

Supervises crew making survey to determine length and direction of base lines for observation of predatory record fire, and spotting and adjustment of fire for effect. Determines coordinates and orienting lines for battalion observation posts, battery directing points, and battery flank observing stations for predatory fire and spotting. Determines and marks limits of fires for automatic weapons and machine guns. Plans and supervises minor constructions, including drainage systems, grading, and roads. Supervises surveys for preparation of topographic maps of small areas. Using alidade, plane table, and drafting set, prepares and maintains special maps, charts, overlays, sketches and such miscellaneous drafting as may be required.

May supervise weather observers in obtaining data for weather report, and orienting and leveling

theodolite. May also measure deviations and develop film.

SUGGESTED SUBSTITUTES

670 Master Gunner, Coast Artillery
832 Master Gunner, Antiaircraft (Automatic Weapons)

MEDICAL NCO (673)

Medical Administrative Specialist (AAF)

Supervises personnel of a medical unit in the administration or care and treatment of sick, injured and wounded. May assist in the supervision of the operation of hospital units or dispensaries; inspection of kitchens, mess halls, latrines, and garbage pits; and cleaning and policing of wards. May supervise requisitioning of medical supplies. May instruct medical enlisted personnel in basic training and such duties as first aid, nursing, and sterilization of instruments. May supervise preparation of medical records and reports.

SUGGESTED SUBSTITUTES

409 Medical Technician
657 Medical Aidman
861 Surgical Technician

MESSAGE CENTER CHIEF (674)

(Specification Serial Number 667 will be used for Message Center Chief assigned to units below a division.)

Directs and coordinates all phases of message center operations at a divisional or higher level to insure the transmission of all messages with the utmost speed, accuracy, and security. Supervises and instructs message center personnel in the function of a message center and in the performance of individual assignment.

Must thoroughly understand the use and relative advantages and limitations of the various means of communication as they pertain to security, transmission speed, traffic capacity and current effectiveness for the type of message to be transmitted.

Must be able to encipher and decipher, or encode and decode classified messages and understand the operation of all cryptographic equipment and cryptographic systems peculiar to the unit. Must have cryptographic clearance.

SUGGESTED SUBSTITUTES

667 Message Center Clerk
805 Cryptographic Technician

MILITARY POLICEMAN (677)

Provost Sergeant

Assists in the enforcement of military laws and

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regulations, maintenance of order, and control of traffic.

Assists civilian police in securing compliance with civil laws by military personnel. Protects civilians and military personnel from violence in areas under military jurisdiction.

Furnishes information regarding location of units and other establishments. Guards property in defense areas against sabotage. Quells uprisings and outbreaks in areas under guard. Prevents and investigates criminal action. Accepts custody of enlisted men who have been apprehended by civilian police for minor violations. Controls stragglers and circulation of individuals.

May receive and act as guard of military prisoners, including their custody, care, processing, and evacuation. May supervise other military policemen in carrying out police or guard functions.

Must be tactful and courteous and be an outstanding example of soldierly conduct and bearing. Must understand duties of a military police organization and the regulations which apply to its organization. Must have knowledge of use and care of hand weapons such as pistol, riot gun, and sub-machine gun.

POWER TURRET AND GUNSIGHT MECHANIC (678)

Inspects and repairs airplane power turrets in which machine guns are mounted and services the automatic, self-computing sights of these weapons.

Inspects turrets for cleanliness and checks condition of such features as electrical wiring and tightness of electrical connections. Starts actuating mechanism and operates hand controls of turret to observe its functioning. Moves turret through various azimuths and elevations and checks its speed and smoothness of operation, noting any binding or slipping in gear trains, or other malfunctioning. Removes turret from mounting when repairs are necessary. Such repairs include adjustment and replacement of defective electric motors, electrical controls, horizontal and vertical electric motors, gear trains, and a wide variety of small parts. Fills oil cups and hub dial with lubricant. Checks alignment of self-computing gunsights, calibrates controls, and replaces mirrors and other parts. Removes, cleans, and replaces machine guns in turrets.

POWER TURRET AND GUNSIGHT REPAIRMAN (681)

Performs third and fourth echelon maintenance and repair of airplane power turrets, service type gunsights and related equipment at a repair depot.

Disassembles, readjusts, repairs, and replaces parts and reassembles all service power turrets,

gunsights and related equipment. Repairs electrical and hydraulic systems and makes minute adjustments to alignment of sights.

BOMBSIGHT MECHANIC (683)

Inspects, cleans, tests, lubricates, calibrates, and makes minor parts replacements to bombsights and associated automatic flight control equipment.

Removes bombsight from airplane and mounts it on test stand. Tests operation of gyroscope unit, visually checking its balance and condition of its small electric motors and electrical connections. Checks accuracy of computing mechanism and replaces bearings and other moving parts as specified in technical orders.

Must be skilled in the use of small wrenches, pliers, and jeweler's screw drivers.

SUGGESTED SUBSTITUTES

957 Airplane Electrical Instrument Mechanic

AIRPLANE POWER PLANT MECHANIC (684)

In connection with the inspection maintenance, and repair of airplanes, observes operation of airplane power plants and makes adjustments necessary to proper functioning.

Diagnoses power plant malfunctioning. Adjusts and repairs such features of power plant as carburetors, superchargers, injectors, fuel and oil pumps, and ignition units. Makes unit replacements of defective power plant parts. Supervises and assists in removal and installation of airplane engines. Makes required ground tests of airplane power plants.

AIRPLANE ELECTRICAL MECHANIC (685)

Inspects and performs 1st and 2nd echelon maintenance of aircraft electrical equipment other than radio transmitters and receivers and aircraft instruments.

Examines electric wiring, auxiliary electric motors, ignition systems, and lighting units for proper functioning. Uses a combination electrical continuity tester and ohmmeter, ammeter, and voltmeter to locate short circuits and to test currents and resistances. Traces circuits with aid of blueprints. Tightens and solders loose electrical connections. Cleans, repairs, and replaces electric motors ignition units, recognition and landing lighting units, relays, junction boxes, and other related equipment.

Uses such tools as screw drivers, adjustable, open-end, crescent, and box-end wrenches, wire cutters, pen knife, file, and pliers.

Must be familiar with aircraft electrical systems and with basic electrical theory. Must be able to read blueprints to trace electric circuits.

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AIRPLANE INSTRUMENT MECHANIC (686)

Tests and analyzes the functioning of aircraft instruments to reveal defective units.

Examines exterior of instruments for cleanliness, security of mountings and connections, tightness of electrical binding, condition of cases, vibration absorbers, and cover glasses. Checks instrument pointers for excessive oscillation, proper zero setting, and correct indication. Uses combination test set to analyze operation of electrical instruments. Observes operation of gyro-operated instruments in various positions and locates such faults as worn bearings. Notes whether readings of pressure instruments are consistent with factors measured. Replaces instruments when faulty operation is caused by defective internal mechanism. Services the directional gyro, gyro horizon instruments, and automatic pilots. Checks oil in dash pots of automatic pilot and inspects and adjusts the air relays, balanced oil valves, pressure regulators, suction regulators, servos, and oil pumps of the unit.

AIRPLANE PROPELLER MECHANIC (687)

Removes, inspects, cleans, services, and replaces various types of airplane propellers.

Removes propeller dome assembly, disconnects propeller from engine, and "pulls" propeller from mounting. Examines blade surfaces for presence of dirt, scratches, nicks, and cracks. Polishes surface imperfections with fine abrasive paper. Sprays interior of hub and dome with lubricant. Checks propeller for proper tracking, and adjusts vertical and horizontal balance by adding small washers or other suitable weights at base of blades. In service or depot organization, performs various additional maintenance tasks such as the following: Tests hub concentricity and blade angle, using micrometers and gauges; locates internal defects in blades and other parts with a magnaflux; removes blades and disassembles and inspects control mechanisms.

TOW TARGET REEL OPERATOR (688)

Operates and disassembles, cleans, repairs, reassembles reel and working parts of tow reel windlass mounted in airplane for towing aerial targets. Rolls and launches target, brakes cable to maintain proper tension, and releases and replaces targets while in flight. Splices cable when necessary. Must be physically qualified to take part in frequent aerial flights.

AIRPLANE CABLE MECHANIC (689)

Examines, tests, and repairs the metal cables of airplane control systems.

Visually examines cables which connect controls with operating mechanisms (such as elevators and rudders) for loose or broken strands, loose mount-

ing, and insufficient or excessive tension. Removes defective cable and makes repairs by splicing in new strands. Splices loops at ends of cables when they will be attached to mountings. Installs repaired cables and adjusts their tension, and operates airplane controls to test their tension.

In addition to these duties, usually performs aircraft sheet metal work.

Tools and equipment include splicing rings, pliers, wire cutters, wrenches, and screw driver.

FLEXIBLE GUNNERY TRAINER OPERATOR-MECHANIC (691)

Operates and maintains synthetic gunnery training devices consisting of as many as four motion picture projectors running simultaneously for three-dimensional target picturization, motion picture sound equipment, and coordinated machinery for firing of one to four guns at projected targets.

Must be familiar with operation, maintenance, and wiring of cameras, sound equipment, photoelectric cells, and electrically operated scoreboard. Must be capable of threading, splicing, and editing film.

HEIGHT FINDER OBSERVER (692)

Operates a large horizontal base stereoscopic range finder in the range section of a seacoast or antiaircraft artillery battery to determine distances in yards to fixed points, enemy seacraft, and enemy aircraft.

Supervises height finder team consisting of an azimuth tracker, elevation tracker, and reader. Prepares instrument for operation. Levels instrument, using spirit level. Sets off interpupillary distance between the lenses. Focuses eyepieces to accommodate own eyes. Determines correction factors for range, and calibrates the instrument by means of an adjusting dial. Operates instrument by sighting on the object. Determines distances by adjusting stereoscopic image so that object sighted appears at the same depth as the reticule scale within the optical system.

Must possess normal vision in both eyes with stereoacuity of not less than 80 percent.

VETERINARY AMBULANCE ORDERLY (700)

Assists in loading, unloading, and caring for sick or wounded animals.

Restrains animals en route and performs first aid.

May assist ambulance driver by relieving him.

Must be familiar with technical procedures incident to the care and treatment of animals. Must be familiar with casualty classification. Should have knowledge of veterinary first aid, anatomy, physiology, care and treatment of wounded animals dur-

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ing transportation, and methods of handling unruly animals.

COXSWAIN, RADIO TARGET BOAT (703)

Operates, either by local or remote radio control, a high speed radio target boat used either as a target itself or a means of towing targets.

Adjusts the electromechanical linkage system of the boat which is used to regulate throttle and steer boat. Tests and adjusts all radio control equipment, using radio repairman's tools and equipment. Maintains and services a high-powered gasoline engine.

Must have knowledge of theory and operation of radio equipment and gasoline motors.

SUGGESTED SUBSTITUTES

- 647 Radio Repairman, Aircraft Equipment
- 648 Radio Repairman

FUMIGATION AND BATH MAN (706)

Fumigation Chamber Operator

Operates one or more pieces of portable equipment used to disinfest clothing, equipment, and personnel.

Assembles and operates fumigation chamber or water heating unit. Seals fumigation chamber and introduces correct amount of toxic gas (methyl bromide) using attached engine, fan, and ducts. Tests for leaks using Halide leak detector. After appropriate period determined by outside temperature, permits gas to escape. Opens chamber and removes bags of fumigated clothing.

Sets up equipment for bathing of personnel. Assembles shower heads, connects water hose, and starts and operates water heating unit consisting of gasoline engine, generator, transformer, water pump, oil pump, blower, fire tubes and boiler. Checks water, oil, gasoline, voltage, and temperature dials. Keeps water at correct temperature and regulates controls. Assists in setting up equipment to secure adequate water supply, drainage, and protection from aerial observation and attack. Cleans fire tubes and boilers and performs minor maintenance and repair, using simple hand tools.

Must know how to pitch large tents.

SUGGESTED SUBSTITUTES

- 014 Automotive Mechanic (Second Echelon)
- 846 Portable Power Generator Operator

TRAFFIC ANALYST (RADIO) (709)

Traffic Analyst E

Assists in the editing, preparation, logging, and tabulation of communications traffic and in the control of the activities of intercept agencies to obtain the maximum amount of intercept coverage. Reconstructs communication networks by graphic

triangulation based on statistical tabulation of call signs, operating procedures, frequency tables, and traffic analyses. Deduces and extracts information of military value from intercepted traffic without recourse to cryptanalysis of the text.

May assist in the supervision of training of personnel engaged in the above work. Must have cryptographic clearance.

Should be familiar with the use of radio call signs and procedures.

Some knowledge of radio operation, world geography, enemy language, or statistical procedure desirable.

STABLE SERGEANT (710)

Supervises the care of animals and equipment in field or camp for a military organization using animals as means of transport.

Supervises and controls care, feeding, and watering of animals. Receives, checks, cares for, and determines fitness of forage and bedding. Instructs personnel in performing such duties as grooming, clipping, manning, and caring for animals and in the care of harness, saddles, bridles, and related equipment. Supervises cleaning of stables, corrals, and picket lines, taking necessary measures to insure satisfactory sanitary conditions. Inspects animals for sores, cuts, and skin abrasions, and administers first aid treatment. Carries out veterinarian's instructions regarding care of sick animals. Maintains forage record, shoeing record, morning report of animals, property record, and a horse record card which contains pertinent descriptive data for each animal.

Should have civilian experience as horse trainer, groom or barn boss.

SUGGESTED SUBSTITUTES

- 094 Horseshoer
- 713 Packmaster

PACKER, ANIMAL (712)

Slings and unslings loads on horses or mules used in transporting ammunition, matériel, and other cargo necessary for the functioning of field units operating in mountainous or jungle terrain.

Saddles and unsaddles pack animals with a Phillips pack saddle designed for hanger positioned or rope-hitched loads. Prepares cargo for loading by bundling (lairing) in pack covers or mantas depending upon size, shape, and number of bundles to be loaded on one animal. Slings load to back of animal by hand placing it in proper position for transport. Lashes load to pack saddle with ropes, tying such knots as single diamond hitch, double diamond hitch, squaw hitch, and cross tie sling. Slings hanger loads by means of special hangers

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which fit over hanger bars of pack saddle and secures them by means of a canvas cinch or by straps which buckle in staples of saddle.

May maintain animals in line during marches by walking beside pack animal or by manipulation of bridle reins while mounted or on foot.

Must have more than average strength and be capable of enduring long marches on foot over rough terrain. Must understand care and management of mules or horses.

SUGGESTED SUBSTITUTES

565 Pack Driver
1531 Gun Crewman, Pack Artillery

PACKMASTER (713)

Cargador

Supervises, directs, instructs, and controls pack train personnel in the packing, training, conditioning, and care of pack animals and in the care and maintenance of the Phillips pack saddle and harness.

Directs personnel in saddling, packing, and lashing operations and in movement or emplacement of animals. Observes animals during march, checking saddle adjustment and adjusting loads in order to prevent sores, cuts, and skin abrasions, administering first aid treatment when necessary. Adjusts pack saddle to fit individual animals by adding to or removing hair from saddle pads, using such tools as hair hook, stuffing rod, and hammer. Repairs breaks in harness, bridles, and leather equipment on saddles and replaces such hardware held by leather binding as hasps, rings, and snaps by sewing or riveting, using such tools as saddler's clamps, punch riveting hammer, punches, riveting anvil, rivet cutting nippers, draw gauge, saddler's anvil, pegging awls, thimble, needle, shears, divider, and pliers.

May perform duties of a stable sergeant.

SUGGESTED SUBSTITUTES

094 Horseshoer
192 Saddle and Harness Maker
710 Stable Sergeant

MINE SUPPLY MAINTENANCE TECHNICIAN (714)

Receives, stores, and tests mine cable and cleans and maintains mine equipment exclusive of explosives.

Tests used and unused cable by electrical instruments such as bridge megger and fault finder to determine insulation and conductor resistance. Approves or rejects cable thus tested. Renovates used cable by cutting away deteriorated parts, drying out moisture, sliding metal sleeve over splice, and

connecting sleeve to cable sheathing by lead joint, using such tools as hacksaw, chipping knife, hammer, mallet, gasoline burner, and wire cutter. Records length of time in use and location of each piece of cable. Keeps record of mine equipment such as buoys, mines, mine casings, lead anchors, distribution boxes, and ordinary tools such as pliers, wire cutters, wrenches, and hammers. Cleans, scrapes, and repaints buoys and mine casings.

May supervise a group of workers engaged in the above duties.

SUGGESTED SUBSTITUTES

039 Cable Splicer, Telephone and Telegraph
656 Submarine Mine Loader
722 Submarine Mine Planter

OXYGEN AND ACETYLENE PLANT OPERATOR (719)

Foreman, Oxygen and Acetylene Plant

Operates equipment to produce oxygen and nitrogen or acetylene.

In an oxygen plant, manipulates valves to pass air through a series of units that compress the air, remove carbon dioxide, moisture, oil content, and separate liquid air into nitrogen and oxygen. Passes liquid oxygen or nitrogen into expansion chamber and compresses oxygen into high pressure cylinders. Cleans equipment, blows out tubes, and cleans and refills driers. In an acetylene plant, manipulates valves to let water into generator, pours calcium carbide into hopper, and starts motor to activate device that sifts carbide into water producing acetylene gas. Opens valves, letting gas into storage chamber. Compresses acetylene into high pressure cylinders and removes sludge from generator. Maintains generating equipment.

May supervise other operators.

Must be familiar with processes, precautions, and hazards involved in manufacturing oxygen and nitrogen and generating acetylene.

SUBMARINE MINE PLANTER (722)

Chief Submarine Mine Planter
Planting Aft Detail
Planting Detail
Planting Port Detail
Planting Starboard Detail

Works on an Army mine planter as member of a group engaged in lowering and raising submarine mines used for protection of coastal waters and harbor areas.

Assists in raising and lowering submarine mines by means of ship davits, chain blocks, and catheads. Connects mine cables to proper mines and makes a watertight electrical joint between loading wire of mine and single conductor mine cable. As-

GAS GENERATING PLANT OPERATOR (719)

Forsman, Gas Generat- ing Plant	Acetylene Generating Plant Operator
Oxygen Generating Plant Operator	Hydrogen and Carbon Dioxide Generating Plant Operator

Operates and maintains at least one type of the gas generating plants used by the Army, such as the oxygen and acetylene generating plant or the methanol type hydrogen and carbon dioxide generating plant.

Operates gas generating plant; regulates valves to proper settings; starts and maintains engines, burn-

ers, compressors and pumps; observes thermometers and gauges during operation, making necessary adjustments of burners, by-pass valves, pumps, etc., to maintain efficient and safe operation; operates cleaners, dryers, or similar devices for cleaning or for removing impurities in the gas; compresses gas when necessary into high pressure cylinders; inspects, cleans, and maintains parts of the generating equipment. May supervise other operators.

Must be familiar with processes, precautions and hazards involved, including sources of danger and emergency measures to be taken.

Completion of Army school course in the operation of gas generating plants or equivalent experience required.

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sists in moving auxiliary equipment such as anchors, rope, buoys, and cable from dock to ship prior to planting operations. Assists in cleaning, painting, and oiling mine equipment during periods when mine planter is not at sea.

Must be above average in physical strength.

SUGGESTED SUBSTITUTE

065 Seaman

RANGE SECTION OPERATOR, COAST ARTILLERY (724)

Plotter

Acts as member of a plotting room team, performing various duties in connection with determination of firing data for seacoast artillery guns of various calibers.

Calculates and plots uncorrected range and azimuth on a mechanical plotting board. Measures distance between plotted points and calculates set-forward point using a special slide rule to determine point at which target should be when projectile lands. Calculates corrected range and deflection for non-standard ballistic conditions and relays correct data to guns for firing.

WATER SUPPLY TECHNICIAN (727)

Filter Operator,	Foreman, Water Supply
Water Supply	Water Supply Engineer
Filter Unit Operator	Water Supply Man

Operates mobile water purification equipment at a water point and issues water to troops.

Connects water hose between water source, water pumps, and filter unit. Starts four-cylinder inline gasoline engine which actuates centrifugal water pump and leads water through filter unit and chemical treating unit to canvas storage tanks from which purified water is issued. Prepares hypochlorite solution for purification, and alum and potash solution for filtration of water. Pours solutions into respective feed tanks and regulates rate of flow into unit. Performs standard tests at regular intervals, using chemical indicators and comparator to insure that water is filtered and neutral and that residual concentration of chlorine is not too high. Cleans and washes sand filter by reversing direction of water. Performs minor maintenance on water purification equipment.

May keep simple records of quantity of water issued. May drive truck on which equipment is mounted. May assist water supply noncommissioned officer in locating water point.

Must know principles of water purification, including correct portion of chemical solutions needed to purify water.

May supervise other technicians. May reconnoiter

to determine adequate water supply in advance of troops.

When assigned to Transportation Corps should be able to treat boiler water chemically.

PIONEER (729)

Motorboat Operator Engineer Basic

Operates as member of crew of specially trained troops in constructing and repairing roads and bridges, removing natural and man-made obstacles to facilitate movement of friendly forces, executing demolitions, and creating man-made obstacles to prevent or slow advance of enemy forces.

In advance against enemy, precedes friendly forces and clears passage ways. Makes temporary repairs to roads which may have been destroyed, such as filling in bomb crater holes. Makes repairs to demolished bridges or erects temporary bridges. Sets up, braces, and rigs lighter vehicles which cannot ford a stream and pulleys them across, using logs, heavy rope, and wire. Disables and removes antitank land mines, road blocks, and wire entanglements laid by enemy forces. In retreat from enemy, remains behind to impede enemy advance. Employs dynamite to blow up bridges, roads, and buildings. Lays antitank land mines and other dynamite traps to disable enemy vehicles. Creates obstacles, such as erecting road blocks with logs or wire. May operate outboard motors.

Equipment includes air compressors; demolition sets, consisting of supplies of dynamite, primer cord, time fuzes, and electric and nonelectric firing caps; pioneer sets, consisting of hammer, saw, ax, machetes, grappling hooks, 36-inch wrecking bars, and 5-foot crow bars; heavy rope and wire.

At supervisory level is responsible for coordination and control of group men engaged in pioneer or demolition activities.

SUGGESTED SUBSTITUTES

189 Rigger
356 Foreman, Labor
533 Demolition Specialist

SMOKE GENERATOR OPERATOR (731)

Smoke Generator NCO

Operates and maintains a portable smoke generator used in laying down smoke screens for defensive or offensive purposes.

Obtains and interprets information as to wind, direction, humidity, density, and other factors affecting laying of smoke screens. Receives directions where generator is to be driven and familiarizes himself thoroughly with the exact location by means of maps previously prepared. Drives truck to prearranged location and starts gasoline engine which

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controls pumps of smoke generator. Pulls lever on smoke generator to start flow of smoke and continues to watch gauges and make minor adjustments. Watches pressure gauges and dial thermometers to determine proper functioning of generator pumps and checks valves. Tightens belts and bleeds oil lines when reading of gauges shows generator is not running properly. Performs organizational maintenance on truck and smoke generator, using screw driver, pliers, S-wrenches, socket wrenches, and grease guns. Makes minor adjustments to electric generator used for lighting oil burners and may disassemble and clean small burner.

SUGGESTED SUBSTITUTES

014 Automotive Mechanic (Second Echelon)
345 Truck Driver, Light
931 Truck Driver, Heavy

AMPHIBIAN TRACTOR DRIVER (732)

Operates a gasoline or Diesel-powered amphibian tractor used in transporting supplies, equipment, and personnel to points on land.

Prepares tractor for debarkation, checking engine, hull, tracks, and equipment. Maneuvers tractor in water to prevent crashing into other craft and grounding on sand bars or reefs. Controls loading of tractor and supervises stowing, bracing, and lashing of cargo. Is responsible for driver maintenance. Maintains log of operation, recording compass course, distances, buoys, vessels passed, currents, and landing conditions.

May evacuate casualties from land points to ships.

Must be familiar with navigation rules, harbor markers, and cargo stowage. Should have prior experience as track vehicle driver.

RECONNAISSANCE CAR CREWMAN (733)

Antitank Gunner
Intelligence Observer
Radio Telephone Operator
Reconnaissance Car Commander
Reconnaissance or Scout Car Driver
Scout Car Commander
Scout Car Crewman

Operates as member of reconnaissance car crew in combat in reconnoitering advance and enemy territory for information of military value.

As crew member, drives vehicle on which gun is mounted; lays, aims, and fires gun in accordance with fire orders from reconnaissance car commander; loads gun with ammunition; maintains radio communication where necessary when radio silence is not prescribed; or performs scouting mis-

sions on foot or mounted to obtain information concerning enemy.

Equipment includes antitank guns such as the 37-mm and 57-mm light and heavy machine guns, and small arms.

Must be thoroughly familiar with reconnaissance techniques, scouting, and patrolling. Must be able to read maps and compass. Must be able to operate traversing and elevating mechanisms on antitank gun. Must be familiar with lead markings in sight to track moving targets. Must be capable of making accurate range estimations. Must be familiar with driver maintenance.

At supervisory level is responsible for control and tactical employment of reconnaissance crews, weapons, and vehicles.

SUGGESTED SUBSTITUTES

610 Antitank Gun Crewman
761 Scout

FULL-TRACK DRIVER (735)

Operates a gasoline or Diesel-powered high-speed caterpillar tractor to drag or tow heavy artillery weapons, construction equipment, and other military equipment and matériel.

Makes preoperation inspection of tractor by checking condition of brakes, steering mechanism, motor, transmission, tracks, bogey, and drive wheels. Operates tractor by manipulating levers and controls to control forward, reverse, or turning movements. Hitches draw bar to weapons or equipment to be towed or attaches tow line to tractor and equipment. Tows artillery or equipment on roads and cross country. Camouflages tractor and towed equipment for protection against enemy air and armored units. Services, cleans, and lubricates tractor. Makes minor repairs to track, bogey, and drive wheels and engine.

May drive a tank.*

Should know general principles of internal combustion engines, power transmission, and electrical systems of caterpillar tractors.

Must have an Army motor vehicle operator's permit.

FLIGHT ENGINEER (737)

Operates the engine control panel on very heavy multiple-engine airplanes.

At the pilot's direction adjusts throttle, mixture, supercharger and propeller pitch control to obtain varying conditions of engine speed, manifold pressure, and fuel consumption. Performs such items of maintenance and adjustment as are possible during flight, such as correcting malfunctions of en-

*See 1736 Light Tank Crewman.
2736 Medium Tank Crewman.

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gines, cabin supercharger systems, landing gear, etc. Maintains the weight and balance of the airplane during flight within allowable limits. Advises pilot as to computations of cruising range and data relative to fuel consumption. Advises pilot as to engine performance; weight and balance; and airworthiness of the airplane. Maintains a flight log and other necessary records during flight.

Assists the ground crew chief with the daily and preflight inspections and reports to the pilot any deficiencies in the inspection and maintenance of airplane. Directs loading of airplane.

Must be physically qualified for flight duty, must have completed flight engineers course. Must be capable of rapid arithmetical computations. Should have previous experience as crew chief or similar responsible duty on two- or four-engine aircraft.

INTERCEPT OPERATOR-G (738)

Identifies and intercepts *German* military radio signals by means of a radio receiver. Copies intercepted messages and relays them for translation and decoding.

Assembles, installs, operates, and maintains radio receiving and direction-finding equipment including auxiliary accessories such as frequency meter, ink and sound recorders, panoramic adaptors, antenna systems, and power units. Tunes in radio receiver on an assigned frequency or by searching over a band of frequencies. Records intercepted traffic by means of hand printing or typewriter or by transcribing data from sound and siphon ink recordings. Operates direction-finding equipment, takes bearings and plots them on a map. Maintains station logs and other records pertaining to the handling of messages.

Performs first echelon maintenance by inspecting, dusting, and oiling equipment; making simple repairs or adjustments such as changing tubes, adjusting frequencies, and siphon recorder pen. Uses simple hand tools.

Must be able to receive International Morse Code (including special German characters) by hand printing at a speed of 20 five-letter random code groups per minute and by typewriter at a speed of 25 five-letter random code groups per minute both for a minimum period of 3 consecutive minutes out of 5, without error.

Must have working knowledge of combined radio-telephone, radiotelegraph, and authentication procedures. Must be familiar with and understand the use of procedure signs and signals employed in German military radio communication.

SUGGESTED SUBSTITUTE

766 Radio Operator, High Speed, Manual

INTERCEPT OPERATOR-J (739)

Identifies and intercepts Japanese military radio signals by means of a radio receiver. Copies intercepted messages and relays them for translation and decoding.

Assembles, installs, operates, and maintains radio receiving and direction-finding equipment including auxiliary accessories such as frequency meter, ink and sound recorders, panoramic adaptors, antenna systems, and power units. Tunes in radio receiver on an assigned frequency or by searching over a band of frequencies. Records intercepted traffic by typewriter or by transcribing data from sound and siphon ink recordings. Operates direction-finding equipment, takes bearings and plots them on a map. Maintains station logs and other records pertaining to the handling of messages.

Performs first echelon maintenance by inspecting, dusting and oiling equipment; making simple repairs or adjustments such as changing tubes, adjusting frequencies, and siphon recorder pen. Uses simple hand tools.

Must be able to receive and copy (without error) on a standard typewriter for a minimum period of 3 consecutive minutes out of 5: International Morse Code sent at a speed of 30 four-letter random code groups per minute; Japanese Radiotelegraph Code in Ramaji sent at a speed of 75 characters per minute.

Must have working knowledge of combined radio-telephone, radiotelegraph, and authentication procedures. Must be familiar with and understand the use of procedure signs and signals employed in Japanese military radio communications.

SUGGESTED SUBSTITUTE

766 Radio Operator, High Speed, Manual

RADIO OPERATOR, INTERMEDIATE SPEED (740)

Installs and operates tactical field radio transmitting and receiving equipment; sends and receives messages by International Morse Code (CW, ICW, or tone) signals and by light signals. Normally operates in divisional, brigade, and equivalent radio nets.

Receives CW, ICW, or tone signals and prints pencil copy at a minimum speed of 18 five-letter random code groups per minute without error for a minimum period of 3 consecutive minutes out of 5.

Transmits CW, ICW, or tone signals, using hand key, at a minimum speed of 18 five-letter random code groups per minute without error for a minimum period of 2 consecutive minutes out of 3.

Handles, without error, a minimum of 18 plain-

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dress normal form messages (averaging 10 five-letter random code groups of text) per hour in a field radio net of two or more stations through natural interference.

Receives and transmits messages by light signals at a minimum speed of 5 words per minute.

Maintains records pertaining to the handling of messages.

Performs first echelon maintenance by keeping equipment clean, inspecting cords, plugs, antenna mast, receiver, transmitter and calibration charts, and making minor repairs or adjustments such as changing tubes, adjusting frequencies, and adjusting key, using simple hand tools.

Must possess a working knowledge of Combined Radiotelephone, Radiotelegraph and Authentication Procedures. May be required to encipher and decipher messages using Converter M 209.

SUGGESTED SUBSTITUTE

776 Radio Operator, Low Speed

RIFLEMAN (745)

Rifle Noncommissioned Officer

Security Noncommissioned Officer

Loads, aims, and fires a rifle to destroy enemy personnel and to assist in capturing and holding enemy positions.

Places fire upon designated targets or distributes fire upon portions of enemy line, changing position as situation demands.

Must be able to use hand weapons, including rifle, automatic rifle, rocket launcher, rifle grenade launcher, bayonet, trench knife, and hand grenades. Must be trained in taking advantage of camouflage, cover and concealment, entrenching, recognition and following of arm and hand signals, and recognition of enemy personnel, vehicles, and aircraft. Must be familiar with hand-to-hand fighting techniques. Must understand methods of defense against enemy weapons.

SUGGESTED SUBSTITUTE

746 Automatic Rifleman

AUTOMATIC RIFLEMAN (746)

Ammunition Bearer

Rifle Noncommissioned Officer

Security Noncommissioned Officer

Loads, aims, and fires an automatic rifle to provide fire power support to tactical units in capturing and holding enemy positions.

Fires rifle either semi-automatically or in short bursts, as situation demands, upon designated targets or distributed upon portions of enemy lines, changing position as situation demands. Reduces

stoppages as they occur and cleans and oils piece.

Must be able to use hand weapons, including rifle, automatic rifle, rifle grenade launcher, bayonet, trench knife, and hand grenades. Must be trained in taking advantage of camouflage cover and concealment, recognizing and following arm and hand signals, and identification of enemy personnel, vehicles, and aircraft. Must be familiar with hand-to-hand fighting techniques. Must understand methods of defense against enemy weapons.

SUGGESTED SUBSTITUTES

604 Light Machine Gunner

745 Rifleman

AIRPLANE AND ENGINE MECHANIC (747)

Assists in performing prescribed inspections and maintenance of aircraft.

Examines portions of aircraft such as wings, fuselage, stabilizers, flight control surfaces, propeller, and landing gear for evidence of damage of wear such as cracks, bent or broken members, and looseness which might cause dangerous vibration. Corrects such defects by appropriate maintenance, minor repairs, adjustments, or unit replacement. Refers specialized repairs on propellers, instruments, hydraulic and electrical systems to appropriate specialist. Cleans all accessible structures and parts with appropriate cleaning agents. Manipulates controls in cockpit to insure proper operation and alignment of flight control system. Makes required adjustments by correcting tension of control cables or by replacing badly worn control cables. Assists in inspection and maintenance of engine and in changing engines. At stipulated intervals, and with assistance of other mechanics, disconnects engine from its mounting, removes it from airplane and makes replacement, using mechanic's tools and equipment, and technical orders as a guide to maintenance procedures. Assists in preparing engines and other units for shipment.

Is responsible for inclusion in airplane of miscellaneous equipment such as life rafts, parachutes, adequate supply of breathing oxygen, appropriate forms, and technical orders in proper storage places.

Must have a knowledge of Army Air Forces forms and technical orders and weight and balance procedures.

AIRPLANE MECHANIC-GUNNER (748)

Aerial Engineer-Gunner

Assists pilot in operation of a multiple-engined airplane by maintaining a constant check on its mechanical functioning. Fires aerial guns in combat.

Notes readings of engine and navigation instruments, reporting any indication of malfunctioning,

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and maintains log of engine performance. Makes limited repairs and mechanical adjustments while in flight. Transfers fuel from one tank to another as consumed, in such manner as to maintain balance of airplane. Assists pilot in deciding whether airplane should be grounded when serious malfunctioning develops. Reports needed repairs to maintenance crew.

AIRPLANE MAINTENANCE TECHNICIAN (750)

Airplane Crew Chief Airplane Inspector
Airplane Flight Chief Airplane Line Chief

Supervises the inspection, maintenance, adjustment, and minor repair of aircraft and aircraft equipment.

Performs prescribed inspections of aircraft to determine necessary servicing, adjustments, or parts replacements. Determines priority of jobs, and assigns crews or individual specialists to tasks. Thoroughly checks maintenance work to insure proper condition of aircraft. Instructs subordinates in interpretation of technical orders and in maintenance methods. Analyses and trouble shoots unusual malfunctioning of aircraft. Coordinates all maintenance operations to expedite restoring aircraft to serviceable condition. Supervises maintenance of shop records, airplane and engine maintenance forms, and requisition and care of tools, equipment, parts, and supplies. Warms up engines and taxis airplanes, checks weight and balance computations of aerial engineer-gunner.

Must have a thorough working knowledge of all aircraft assemblies, systems, and Army Air Forces technical orders. Considerable experience in inspection and maintenance aircraft required.

RADIO MECHANIC, AAF (754)

Performs necessary maintenance and repair work on Army Air Forces airborne and ground radio equipment.

Makes required periodic inspections of radio equipment. Keeps equipment clean, inspects antenna systems, cords, plugs, telegraph key, and control switches and makes all necessary adjustments. Tests and replaces parts for Army Air Forces radio equipment customarily installed in ground stations or military aircraft, such as receivers, transmitters, power supply auxiliaries, and accessories.

RADIO OPERATOR, AAF (756)

Operates ground transmitting and receiving equipment. Sends and receives messages using letters and numerals of the International Morse Code, CW, ICW, tone, or light signals in the same code.

Receives International Morse Code signals copying by hand-printing at a minimum speed of 16 five-letter random code groups per minute without error for a minimum period of 3 consecutive minutes out of 5.

Transmits International Morse Code signals, using hand key, at a minimum speed of 16 five-letter random code groups per minute without error for a minimum period of 2 consecutive minutes out of 3.

Handles without error, a minimum of 15 plain-dress normal form messages (averaging 10 five-letter code groups of text) in a field radio net of two or more stations through interference.

Normally operates ground-to-air and point-to-point, changing frequencies as required. Tunes radio equipment accurately and quickly to any required frequency covered by coils and installed equipment. Maintains calibration charts, revising transmitter tuning data as necessary. Must possess a thorough working knowledge of combined radio-telephone and radiotelegraph procedures and authentication. Should be familiar with commonly used low grade cryptographic equipment and systems. Receives and transmits by light signals at a minimum speed of 5 wpm. Maintains station logs and message files.

Makes required periodic inspections of radio equipment. Keeps equipment clean, inspects antenna systems, cords, plugs, telegraph key, and control switches and makes all necessary adjustments. Tests all Army Air Forces radio equipment customarily installed, such as receivers, transmitter, power supply auxiliaries and accessories. Changes tubes, or tuning coils as necessary.

RADIO OPERATOR-MECHANIC-GUNNER, AAF (757)

Operates airborne transmitting and receiving equipment; sends and receives messages using letters and numerals of the International Morse Code, CW, ICW, tone or light signals in the same code.

Receives International Morse Code signals copying by hand-printing at a minimum speed of 16 five-letter random code groups per minute without error for a minimum period of 3 consecutive minutes out of 5.

Transmits International Morse Code signals, using hand key, at a minimum speed of 16 five-letter random code groups per minute without error for a minimum period of 2 consecutive minutes out of 3.

Handles without error, a minimum of 15 plain-dress normal form messages (averaging 10 five-letter code groups of text) in a field radio net of two or more stations through interference.

Normally operates air-ground, changing frequencies as required. Tunes radio equipment accurately

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and quickly to any required frequency covered by coils and installed equipment. Maintains calibration charts, revising transmitter tuning data as necessary. Must possess a thorough working knowledge of combined radiotelephone and radiotelegraph procedures and authentication. Should be familiar with commonly used low grade cryptographic equipment and systems. Receives and transmits by light signals at a minimum speed of 5 wpm. Maintains station logs and message files.

Performs necessary flight maintenance on airborne radio equipment used throughout the Army Air Forces. Makes required periodic inspections of radio equipment. Keeps equipment clean, inspects antenna systems, cords, plugs, telegraph key, and control switches and makes all necessary adjustments. Tests all Army Air Forces radio equipment customarily installed on military aircraft, such as receivers, transmitter, power supply auxiliaries, and accessories, changing tubes, or tuning coils and making minor repairs to equipment as necessary.

Must be physically qualified for flight duty.

Handles gun position as directed. Loads, aims, and fires a machine gun and other ordnance as prescribed for airborne use against aerial and ground targets. Sets sights and corrects aim if required. Makes necessary adjustments to airplane guns; corrects stoppages and makes minor repairs. Must be able to identify enemy airplanes.

RADIO OPERATOR, CNS (759)

Operates, inspects, and makes minor repairs to very high frequency radio equipment and to fixed and mobile ground direction-finding equipment.

Cleans, adjusts, installs, and replaces parts in direction finding and very high frequency receivers and transmitters and their power supplying auxiliaries and accessories, using radio repairman's tools.

RADIO OPERATOR, AACS (760)

Operates radio transmitting and receiving equipment at an Airways Communications Station (AACS) conducting a point-to-point and ground-air operations. Sends and receives messages by voice, or using letters and numerals of the International Morse Code (CW, ICW, or tone signals) or by light signals in the same code.

Receives CW, ICW, or tone signals (copying by typewriter) at a minimum speed of 20 five-letter random code groups per minute without error for a minimum period of 3 consecutive minutes out of 5, or without more than five errors for a period of 10 minutes under actual operating conditions.

Transmits CW, ICW, or tone signals using a hand key at a minimum speed of 20 five-letter random

code groups per minute without error for a minimum period of 2 consecutive minutes out of 3, or without more than five errors for a period of 10 minutes.

Handles without error a minimum of 18 plain-dress normal form messages (averaging 10 five-letter random code groups of test) per hour in a radio net under actual operating conditions.

Tunes radio receivers to predetermined frequencies using standard frequency meter. Must be thoroughly familiar with the functions and operations of all controls on standard communications receivers.

Intercepts signal broadcasts of weather conditions and map signal transmissions.

Reads and transmits messages by light signals at a minimum speed of eight words per minute.

Must have a working knowledge of the operation and adjustment of a semi-automatic telegraph key.

Must possess thorough working knowledge of combined radiotelephone and radiotelegraph procedures and authentication.

Maintains station logs and message files.

SCOUT (761)

Intelligence Observer
Liaison Agent

Reconnaissance Agent
Reconnaissance NCO

Obtains information concerning strength, disposition, and probable intentions of enemy forces, route conditions, locations for bivouac, and terrain features in order to facilitate tactical employment and maneuver of friendly troops, and prevent surprise attack.

Applies scouting and patrolling principles in searching terrain for sign of enemy activity, operating from an observation post, on foot, or mounted. Records observations and transmits by the best available means of communication.

Based on observations of activity and disposition must be able to estimate strength of enemy detachments and arrive at a logical conclusion as to their probable intentions. Must be able to read maps and aerial photographs, make sketches, and use compass and field glasses. Must be able to determine, by observation and inspection, what load may be moved over bridges and roads on route of advance of friendly troops. Must be proficient in use of weapons with which armed. Must possess excellent visual memory. Must be able to remain oriented in unfamiliar territory.

At supervisory level, is responsible for control, coordination, and tactical employment of reconnaissance crew.

SUGGESTED SUBSTITUTES

604 Light Machine Gunner

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605 Heavy Machine Gunner
607 Light Mortar Crewman
733 Reconnaissance Car Crewman
745 Rifleman
746 Automatic Rifleman
1607 Heavy Mortar Crewman

AIRPLANE ENGINE REPAIRMAN (762)

Performs highly skilled mechanical operations in connection with the complete overhaul of airplane power plants in a repair shop.

Disassembles, inspects, cleans, replaces worn and defective parts, adjusts mechanical action, and reassembles airplane engines. Performs difficult and delicate repairs and adjustments of valve actuating and timing mechanisms, valve seats, bearings, crankshafts, articulating rods, pistons, lubrication system, propeller oil pressure system, accessory and drive gears and pinions.

Must be able to repair fuel injection devices where found. Must be able to detect hidden flaws in metal parts by use of magnaflux devices. Must be able to work from technical orders appropriate to model engine under repair. Should know overhaul of internal superchargers and rear sections.

SUGGESTED SUBSTITUTE

684 Airplane Power Plant Mechanic

SEARCHLIGHT CREWMAN (763)

Control Station Operator
Machine Gunner, Searchlight Crew
Portable Power Generator Operator, Searchlight
Searchlight Operator

As a member of a crew, performs one or more of the following duties in the operation of a searchlight used for illumination of enemy targets in the air or at sea:

Sets up, operates, and maintains portable power generator. Starts motor, regulates speed of engine, checks operation gauges, services motor, and makes minor repairs such as changing fan belt or spark plugs. Operates and maintains searchlight, connecting light to power source, throwing switch to turn on light, checking dials for proper amperage, examining carbons through porthole mechanism box to make certain they are the proper length, and cleaning and polishing mirror regularly. Sets up and operates control station. Hooks up station to radar and to searchlight. Maintains electrical synchronization and precise direction between radar detector and searchlight either by manipulating handwheels and zeroing dials at control station or by controlling searchlight by remote control from control station while tracking target through binoculars attached to control station.

May drive truck. May direct beam manually with hand crank if power fails. May check orientation of searchlight, control station, and detector by comparing simultaneous readings of azimuth and angular elevation.

Must be familiar with mechanical operation and tactical use of searchlight, power plant, and control station, and with duties of other members of the crew.

VISUAL SIGNALMAN (765)

Signalman

Sends and receives messages by visual means such as semaphores, flags, panels, blinkers, flares, signal projectors, and Very pistols, keeping in constant contact by phone or visual signals with other observation stations.

Performs minor maintenance on equipment used, such as polishing lenses, replacing worn-out batteries, or tightening wire connections.

May observe, signal, and keep a record of all incoming and outgoing ships from a shore station, making observations through telescopes and recording data concerning ship movements.

Must have exceptionally good vision. Must know all codes used in visual signal communication.

RADIO OPERATOR, HIGH SPEED, MANUAL (766)

Installs and operates tactical field radio transmitting and receiving equipment. Sends and receives messages by International Morse Code (CW, ICW, or tone) signals and by light signals. Normally operates in radio nets above the level of a division, such as corps or Army.

Receives CW, ICW, or tone signals (copying by typewriter) at a minimum speed of 25 five-letter random code groups per minute without error for a minimum period of 3 consecutive minutes out of 5. In addition, receives, by hand printing, 13 five-letter random code groups per minute.

Transmits CW, ICW, or tone signals, using hand key, at a minimum speed of 20 five-letter random code groups per minute without error for a minimum period of 2 consecutive minutes out of 3.

Handles, without error, a minimum of 24 plain-dress normal form messages (averaging 10 five-letter random code groups of text) per hour in a field radio net or two or more stations through natural interference.

Receives and transmits messages by light signals at a minimum speed of 5 words per minute.

Maintains records pertaining to the handling of messages.

Performs first echelon maintenance by keeping equipment clean, inspecting cords, plugs, antenna

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mast, receiver, transmitter and calibration charts, making minor repairs or adjustments, such as changing tubes, adjusting frequencies and adjusting key, using simple hand tools.

Must possess a working knowledge of combined radiotelephone and radiotelegraph and authentication procedures. May be required to encipher and decipher messages using Converter M209.

SUGGESTED SUBSTITUTES

740 Radio Operator, Intermediate Speed

776 Radio Operator, Low Speed

CONTROL CENTER TECHNICIAN (768)

Supervises and instructs enlisted men in such techniques as plotting, intercept procedure, and control of aircraft by radio communication as necessary to effect the maintenance and repair of telephone installations and radio equipment for plotting boards and ground-to-air communication.

Must have executive ability and leadership to coordinate the efforts of enlisted personnel in an operational section.

CHIEF STOREKEEPER, RAILWAY (769)

Assists warehouse officer in supervising receipt, inspection, storage, and issue of supplies and equipment at a military railway installation.

Controls the assignment of space and the storage of supplies and equipment in accordance with floor plans. Supervises selection, packing, crating, and marking of supplies, and expedites incoming and outgoing shipments. Supervises inventories and requisitions supplies and equipment necessary to maintain stock levels. Maintains files and records incident to warehouse operation.

Must be familiar with warehouse methods including use of warehouse mechanical equipment such as cranes and pulleys. Should have knowledge of nomenclature of military railway supplies and equipment. Must be able to supervise warehouse foremen, warehousemen, and laborers.

SUGGESTED SUBSTITUTES

252 Foreman, Warehouse

AIRPLANE PILOT (770)

Pilots Army airplanes on all types of missions. May pilot any type of Army airplane, including fighter bombardment, observation, or transport airplanes, depending on rating. Completion of Army Air Forces flight training required.

LIAISON PILOT (772)

Pilots and maintains a small liaison airplane of 175 horsepower or less for purposes of ferrying

officers, taking aerial observers on observation missions, or transporting small amounts of critical matériel. Inspects and performs minor maintenance on airplane to which assigned.

SERVICE PILOT (773)

Pilots airplanes on noncombat flights such as observation flights, tow target flights, and in ferrying aircraft. (Type of airplane flown depends on rating.)

RADAR MECHANIC, GROUND EQUIPMENT (DESIGNATED SET) (775)

In connection with mobile or fixed ground radar equipment (designated set), supervises and also engages in work such as assembling, operating disassembling, tuning, aligning, maintaining, and repairing equipment; supervises or assists in the maintenance of performance logs, station records and the stocking of adequate spare parts.

Maintenance and repair work consist of making periodic tests and inspection of equipment; diagnosing the cause and location of equipment trouble, and effecting appropriate repairs and replacements, or improvising and substituting until proper repairs or replacements can be made. Uses small hand tools and also special tools, test devices, and instruments furnished with the equipment.

Must thoroughly understand the purpose and function of all circuits used in the equipment and its normal accessories. Must understand the procedures for operating the equipment under the handicap of interference from similar equipment or from enemy countermeasure activity and be familiar with the usual means employed to minimize the effect of this interference.

SUGGESTED SUBSTITUTE

775 Radar Mechanic, Ground Equipment (Other Designated Sets)

RADIO OPERATOR, LOW SPEED (776)

Installs and operates tactical field radio transmitting and receiving equipment. Sends and receives messages by International Morse Code (CW, ICW, or tone) signals and by light signals. Normally operates in radio nets below the level of a division.

Receives CW, ICW, or tone signals and prints pencil copy at minimum speed of 13 five-letter random code groups per minute without error for a minimum period of 3 consecutive minutes out of 5.

Transmits CW, ICW, or tone signals, using hand key, at a minimum speed of 13 five-letter random code groups per minute without error for a minimum period of 2 consecutive minutes out of 3.

Handles, without error, a minimum of 12 plain-

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dress normal form messages (averaging 10 five-letter random code groups of text) per hour in a field radio net of two or more stations through natural interference.

Receives and transmits messages by light signals at a minimum speed of 5 words per minute.

Maintains records pertaining to the handling of messages.

Performs first echelon maintenance by keeping equipment clean, inspecting cords, plugs, antenna mast, receiver, transmitter, and calibration charts, making minor repairs or adjustments, such as changing tubes, adjusting frequencies, and adjusting key, using simple hand tools.

Must possess a working knowledge of combined Radiotelephone and radiotelegraph and authentication procedures. May be required to encipher and decipher messages using Converter M209.

RADIO OPERATOR, HIGH SPEED, AUTOMATIC (777)

Operates radio transmitting and receiving equipment in a fixed station. Sends and receives messages by perforated tape. International Morse Code (CW, ICW, or tone) signals and by light signals.

Receives messages, by visually reading tape and copying on a typewriter at a minimum speed of 30 five-letter random code groups per minute for a minimum period of 15 minutes with not more than one error per minute. Transmits by perforating tape at the same speed and accuracy, keeping the circuit in operation for a minimum period of 15 minutes.

Receives CW, ICW, or tone signals (copying by typewriter) at a minimum speed of 25 five-letter random code groups per minute, without error, for a minimum period of 3 consecutive minutes out of 5.

Transmits CW, ICW or tone signals, using hand key, at a minimum speed of 20 five-letter random code groups per minute, without error, for a minimum period of 2 consecutive minutes out of 3.

Handles by manual operation, without error, a minimum of 24 plain-dress normal form messages (averaging 10 five-letter random code groups of text) per hour in a fixed station radio net of two or more stations through natural interference.

Receives and transmits messages by light signals at a minimum speed of 5 words per minute.

Maintains records pertaining to the handling of messages.

Performs first echelon maintenance by inspecting and cleaning equipment, making minor adjustments such as adjusting siphon recorder pen and replacing tubes.

Must possess a working knowledge of combined radiotelephone and radiotelegraph and authentication

procedures. Must have a working knowledge of the operation and adjustment of semi-automatic key.

SUGGESTED SUBSTITUTES

740 Radio Operator, Intermediate Speed

766 Radio Operator, High Speed, Manual

776 Radio Operator, Low Speed

RADIO MECHANIC, AACS (778)

Installs, maintains, and performs first and second echelon maintenance on all standard and special equipment used by Army Airways Communication System.

WEATHER EQUIPMENT TECHNICIAN (782)

Installs, operates, and maintains all types of standard meteorological instruments and equipment and selected types of special meteorological instruments and equipment. Performs third echelon maintenance, and improvises weather instruments and equipment when necessary.

Must know the basic theory of meteorological instruments, appurtenance wiring, and circuit designs. Must be well acquainted with all power supplies for the weather station. Must possess a knowledge of the mechanics of electronics of standard meteorological instruments and equipment. Must be proficient in the skills required of a weather observer.

WEATHER OBSERVER (784)

Meteorological Observer Theodolite Observer
Meteorological Plotter Weather Cryptographer

Makes, records, and evaluates data on atmospheric elements. Reads and records data from standard weather instruments. Makes and records visual observations of clouds, ceiling, visibility, and other weather elements and corrects and evaluates observational data. Codes and decodes weather data. Plots data on weather maps, charts, and diagrams. Performs first and second echelon maintenance of standard weather instruments and equipment. Operates weather teletypewriters in accordance with circuit rules.

Must be well acquainted with forms used in recording observations and with routine weather station forms, requisitions, and records. Must possess a knowledge of elementary meteorology. Must be able to install simple weather instruments and equipment, and must be familiar with the various weather codes and ciphers.

TOXIC GAS HANDLER (786)

Chemical Equipment Operator Chemical Handler
Chief Toxic Gas Handler Toxic Gas Guard

Stores and handles toxic gases and other chem-

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ical warfare ammunition preliminary to their use in the field or analysis in a laboratory.

Observes and enforces safety regulations pertaining to proper handling of chemical warfare supplies. Removes contents of chemical shells, decontaminating them for future use. Prepares and maintains various forms necessary to procure and keep on hand adequate ammunition stock. Classifies and distributes ammunition.

Must be familiar with effects of common toxic gases and first-aid treatments prescribed for each. Must be thoroughly familiar with regulations pertaining to handling and storage of toxic gases. Must be able to change valves on containers and cylinders, and do pipe fitting as necessary.

When assigned to Army Air Forces, fills airplane chemical spray tanks with various toxic gases, and arms tanks for detonation. Decontaminates spray tanks. Must be familiar with procedures for loading spray tanks on various types of airplanes. Must be thoroughly familiar with operation of all equipment contained in the chemical service truck M1. May be required to perform duty as chemical equipment operator, requiring qualification as operator of Army motor vehicle.

WEATHER FORECASTER (787)

Makes or supervises the making of weather observations and forecasts. Supervises the preparation of weather studies, and maps, and prepares forecasts covering particular geographic regions using the latest modern methods of analysis. Prepares climatological studies indicating the probability of occurrence of specific weather phenomena such as ceiling, precipitation, and visibility conditions.

In Army Air Forces, instructs air crews in weather observation and interpretation and in proper use of weather service and may assist in briefing flight.

WEATHER OBSERVER-TELETYPE TECHNICIAN (790)

Makes, records, and evaluates observations of atmospheric elements.

Reads and records data from standard weather instruments. Makes and records visual observations of clouds, ceiling, visibility, and other weather elements. Corrects and evaluates observational data. Codes and decodes weather data. Plots data on weather maps, charts, and diagrams.

Performs first and second echelon maintenance of standard weather instruments and equipment. Installs, adjusts, operates, inspects, repairs, and maintains weather teletype equipment and appurtenant wiring.

Must be well acquainted with forms used in re-

coding observations and with routine weather station forms, requisitions, and records. Must possess a knowledge of elementary meteorology. Must be able to install simple weather instruments and equipment, and must be familiar with the various weather codes and ciphers. Must have a knowledge of the mechanics and theory involved in teletypewriter equipment, and of the care and handling of necessary tools and instruments.

AIR OPERATIONS SPECIALIST (791)

Assists in the administration of an Army Air Force operations office.

Supervises or assists in the preparation and maintenance of individual flight records and related reports; preparation of operations orders authorizing flight missions, check lists for periodic instrument tests, and aircraft damage and accident reports; and issue of flying clothing and personal equipment to aircrew personnel and passengers. Supervises or assists in the dispatching of airplane by preparing flight routes and logs of position reports of outgoing or incoming aircraft, obtaining clearances and information as to weather conditions, and communicating with other stations regarding flights from station and courses of transient airplanes.

Must be familiar with current Army Air Forces and Civil Aeronautics Administration flying regulations regarding air traffic. Ability to type desirable.

RADIO REPAIRMAN, SINGLE CHANNEL TELETYPE (792)

Installs, operates, and maintains radio receiver and terminal equipment of single channel voice frequency radio teletype systems.

Tunes and adjusts receivers and discriminating devices of voice frequency terminal equipment by manipulation of external control devices. Tests circuits, tubes, and other parts of equipment. Locates and diagnoses sources of malfunctioning. Makes adjustments, repairs (including improvisations), replacements and substitutions in such items of equipment as antenna, dual diversity receivers, and teletype relay equipment.

Uses precision electrical and electronic instruments and various types of small hand and light machine tools.

Must be able to transmit and receive in International Morse Code at a minimum speed of 13 words per minute (averaging five characters per word) in clear text. Must be able to make any adjustment or repair to receiving equipment, voice frequency terminal equipment, and accessories. Must understand fundamental principles of teletype transmis-

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sion. Must be able to read accurately various meters, dials, and other indicating devices and know when tolerances are exceeded.

AMPHIBIAN TRUCK MECHANIC (DUKW) (797)

Inspects, repairs, and performs third echelon maintenance on engine, hull, and chassis of amphibian trucks.

Repairs and replaces worn parts. Grinds valves, installs piston rings, checks and adjusts ignition system, and tunes and adjusts motor. Checks and cleans gasoline feed lines. Checks brakes and aligns wheels. Makes repairs to bilge pumps, rudder, propeller, and hull.

Must be a qualified amphibian truck driver.

TRANSMITTER ATTENDANT, FIXED STATION (798)

Under supervision assists in the installation of fixed station transmitting equipment such as antenna, transmitters, and power units.

Tunes and adjusts fixed radio station transmitter equipment, including the changing of crystals and adjustment of master oscillator and amplifiers, to insure that the power output and frequency are within authorized tolerances. Checks and inspects power equipment. Maintains transmitter log and other pertinent records.

Uses frequency meter and electrician's small hand tools.

Must be able to read accurately various meters, dials, and other indicating devices and know when tolerances are exceeded. Must understand the operation of CW, ICW, and AM radio transmitters and receivers.

INTERCEPT OPERATOR, FIXED STATION (799)

For intelligence purposes, identifies and intercepts enemy nonmilitary radio signals transmitted in high speed International Morse Code.

Operates and maintains radio receiving and auxiliary equipment such as ink and sound recorders, transcribers, and frequency meters. Tunes in radio receiver on an assigned frequency or by searching over a band of frequencies. Records intercepted traffic direct by typewriter or by transcribing data from sound and siphon ink recordings.

Performs first echelon maintenance by inspecting, dusting and oiling equipment; making simple repairs or adjustments such as changing tubes, adjusting frequencies and siphon recorder pen. Uses simple hand tools.

Must be able to receive International Morse Code and copy by typewriter at a speed of 30 five-letter

random code groups per minute for a minimum period of 3 consecutive minutes out of 5, without error. Must have knowledge of international radio procedures. Must be familiar with principles of radio transmissions. Must have general knowledge of various types of traffic which have intelligence value.

SUGGESTED SUBSTITUTES

738 Intercept Operator, G

739 Intercept Operator, J

CRYPTOGRAPHIC REPAIRMAN (DESIGNATED EQUIPMENT) (801)

Performs repairs and adjustments on designated cryptographic equipment and associated accessories.

Diagnoses cause and locates source of trouble, testing circuits and equipment for faulty operation. Makes necessary inspections, adjustments, repairs (including improvisations), replacements or substitutions of such items as wiring, relays, keys, jacks, plugs, brushes, switches, rectifiers, gears, pens, and ratchets.

Uses electrician's small hand tools and test instruments.

Must have cryptographic clearance.

Must have thorough knowledge of the theory of d-c and a-c power. Must be able to read and understand adjustment drawings and circuit drawings.

Must have appropriate knowledge of other subjects and devices associated with the particular designated cryptographic equipment.

ARTILLERY MECHANIC, MINOR MAINTENANCE (802)

Inspects, maintains, and makes minor repairs on all types of artillery weapons and auxiliary equipment excluding antiaircraft automatic weapons and guns.

Makes frequent inspections of artillery weapons of using organization to ascertain looseness of bolts, sighting and firing mechanisms, and gun carriage. Makes such minor repairs and adjustments to artillery pieces as drawing and replenishing of recoil fluids, filing and removing of burrs, replacing of breech and firing mechanisms, replacing of wheel bearing and brakes, adjusting backlash in traversing and elevating gears, and removing, cleaning, and replacing of equilibrator.

May make minor repairs and adjustments on small-arms weapons.

Uses such tools and equipment as light and heavy straight wrenches, screw drivers, socket wrenches, hammers, lifting jacks, center punches, and drills.

Must be thoroughly familiar with construction and operation of artillery pieces, including nomenclature and cataloging of replacement parts.

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BUGLER (803)

Plays bugle to sound regulation calls and commands such as warning, formation, alarm, and service calls for the information and guidance of military personnel.

Performs a variety of such additional duties as clerk, messenger, and orderly.

May also play bugle as member of a drum and bugle corps.

Should have a good ear for music. Must be able to remember various regulation calls such as reveille, taps, assembly, charge, call to arms, and retreat without reference to sheet music.

CAMOUFLAGE TECHNICIAN (804)

Camoufleur

Supervises and instructs in the operations involved in camouflaging the appearances, outlines, and shadows of objects and regularly shaped areas to avoid enemy detection either by eye or camera.

Directs the concealment of gun emplacements, observation posts, and munition dumps by erection of garnished nets and natural foliage. Supervises painting of guns, gun carts, trucks, and other military equipment so that they will merge into natural surroundings. Studies actual photographs, and uses them as a guide in directing the change in appearance of airport runways and other areas by painting them to easily blend with surrounding terrain and thereby deceive enemy aerial photographers. Supervises construction of false additions to buildings to alter their appearance, and screens roads to conceal movement of troops. Instructs camoufleurs, carpenters, painters, riggers, and canvas workers in the camouflage techniques.

Equipment used includes water color paints, oznaburg cotton cloth, and camouflage nets.

Must possess a high degree of color discrimination and be able to blend paints to produce natural effects. Must understand effect of changing weather conditions on camouflage.

CRYPTOGRAPHIC TECHNICIAN (805)

Enciphers and deciphers or encodes and decodes classified messages, using all types of cryptographic systems and equipment employed by the Army.

Handles secret communications and maintains cryptographic files. Must have cryptographic clearance.

Has a working knowledge of cryptographic security. Must be capable of typing at a minimum of 25 words per minute.

CRYPTOGRAPHIC CODE COMPILER (807)

Cryptographer

Code Compiler

Gathers and prepares data to be used in the crypt-

analytic solution of enemy messages.

Prepares or assists in preparing, compiling, and revising code books, cipher systems, and cipher keys for use in safeguarding military communications.

May assist in cryptanalysis. Must have cryptographic clearance.

Must have mathematical training and knowledge of foreign languages.

SUGGESTED SUBSTITUTES

805 Cryptographic Technician

808 Cryptanalysis Technician

CRYPTANALYSIS TECHNICIAN (808)

Decodes and deciphers enemy messages and cryptograms without the aid of the device or key used in preparing them.

Using deductive reasoning and employing knowledge of the various cryptographic codes, analyzes coded messages and determines key to code.

May supervise others in cryptanalysis. Must have cryptographic clearance.

Must have training in cryptanalysis and be familiar with all types of cryptographic systems and their variations in military communications. Must possess initiative, patience, and marked deductive ability. Should have some mathematical training and be familiar with at least one foreign language.

SUGGESTED SUBSTITUTES

805 Cryptographic Technician

807 Cryptographic Code Compiler

DECONTAMINATING EQUIPMENT OPERATOR (809)

Uses a portable spray, large power-driven decontaminating apparatus, or other decontaminating equipment to neutralize or remove chemical agents from areas and equipment which have been subject to chemical attack. Wears gas mask and protective clothing while working.

Must know mixtures and solutions of the several agents used in decontamination work and be familiar with all safety regulations applicable to chemical warfare materials, and must be qualified to make field tests for completeness of decontamination. Must be qualified to operate Army motor vehicle.

SUGGESTED SUBSTITUTE

786 Toxic Gas Handler

HEAVY WEAPONS NONCOMMISSIONED OFFICER (812)

Supervises activities of a heavy weapons unit, comprising heavy (.30 and .50 caliber) machine

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guns and heavy (81-mm and 4.2-inch) mortars to provide fire power in support of other tactical units in attack and defense.

Selects positions for weapons, taking advantage of cover and concealment. Furnishes firing data such as range and deflection. Deploys unit as the tactical situation demands.

Must be familiar with firing problems in difficult terrain. Must be capable of rapidly and accurately estimating range and angle of fire. Must be familiar with use of compass, map reading, and range computation from firing table.

SUGGESTED SUBSTITUTES

605 Heavy Machine Gunner
1607 Heavy Mortar Crewman
1812 Light Weapons NCO

OPERATIONS NONCOMMISSIONED OFFICER (814)

Assists operations officer in maintaining current military intelligence as to location and strength of friendly and enemy troop units, preparing plans for tactical employment and disposition of troops in attacks against enemy forces and the strategic withdrawal of troops in retrograde movements.

Maintains ground or aerial photo map of combat area on which is currently posted all military information received from intelligence units pertaining to location, strength, and disposition of friendly and enemy units, using colored pins, conventional Army signs, and other markers. Maintains diary or log of military activities and other incidents in which unit is involved. Assists in preparation of tactical plans concerning attacks against enemy forces and withdrawal of troops. Supervises typing and clerical work required in preparation of combat orders. Prepares map overlays or sketches issued with combat orders. Routes combat orders and map overlays to units concerned.

Equipment includes drafting boards, drafting pens, overlay paper, stereoscopes used in reading and interpreting aerial photos, and protractors used to locate points on maps.

Must know general organization of arm or service to which assigned and be familiar with its tactical employment and technique. Must be able to read maps accurately. Must be able to use stereoscopes and interpret aerial photos. Must be able to prepare map overlays using drafting table, overlay paper, and drafting pens.

SUGGESTED SUBSTITUTE

631 Intelligence Noncommissioned Officer
ORDNANCE SUPPLY NCO (815)
Chief Parts Clerk
Ordnance Noncommissioned Officer

Ordnance Supply Technician (AAF)

Supervises, directs, and assists in the receipt, inspection, requisition, storage, and issue of Ordnance matériel such as small arms, artillery weapons, and automobile and armament parts and accessories.

Supervises loading, unloading, and storage of supplies and equipment. Supervises and assists in taking of inventories and inspection of Ordnance property. Supervises packing and marking and issues shipments of Ordnance matériel. Examines arms and other matériel for defects. Determines validity of requests for replacement parts and controls issue of same. Supervises editing and filling of requisitions, maintenance of stock and individual record books and cards, and directs preparation of Ordnance reports and correspondence.

Must have knowledge of Army regulations governing accountability, responsibility, and supply procedure. Must have knowledge of nomenclature of Ordnance replacement parts including interchangeability of parts.

SUGGESTED SUBSTITUTES

348 Parts Clerk, Automotive
821 Quartermaster Supply Technician
848 Parts Clerk, Armament

PONTONEER (817)

Motor Boat Operator

Works as member of group engaged in assembling, disassembling, and maintaining ponton bridges used to facilitate passage of personnel and equipment across streams.

Unloads component parts of ponton bridges from trucks and trailers and places them in order in which they will be assembled. Assembles and lashes component parts of bridge. Smooths and levels approach to bridge abutment, using picks and shovels, and digs trench in which abutment sill is to be embedded. Installs abutment span and trestle spans which form approach to first ponton and then moves successive pontons into position. Anchors pontons, using cable and heavy weights. Fastens flooring strips on pontons and aligns assembled bridge by adjusting anchor cables. Bails water from pontons by means of pump. Replaces broken or damaged bridge flooring. Dismantles bridge and stacks parts on trucks and trailers.

May operate outboard motor.

Must be above average in physical strength.

SUGGESTED SUBSTITUTES

050 Carpenter, General
729 Pioneer

COMMISSARY STEWARD (819)

Chief Steward

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Supervises the personnel and operations of a commissary sales store, warehouse, and office; or of the sales, administrative, and stock trailers in a mobile unit in issuing subsistence to units and selling various commodities to individuals.

Supervises the preparation of requisitions, and checks receiving reports and deliveries for accuracy. Prepares reports and monthly financial statements of commissary receipts and sales. Makes monthly inventory of stock on hand. Posts monthly balance and general control account ledger. Instructs personnel in prescribed methods of commissary or sales operations.

May purchase certain commodities when authorized. May interview salesmen.

Must know Army regulations governing a sales commissary.

SUGGESTED SUBSTITUTES

371 Purchasing Agent

820 Subsistence Noncommissioned Officer

SUBSISTENCE NONCOMMISSIONED OFFICER (820)

Directs a subsistence supply section in drawing field rations in bulk and in making equitable distribution to the various companies or similar units in his organization.

Checks work of section leaders who handle meats and produce and the work of dry-issue clerks. Draws dry rations from commissary or supply dump and counts number of cases of each item. Supervises a detail in loading cases on trucks and in dividing rations proportionately before delivering them to units.

May supervise delivery of rations to unit mess sergeants.

SUGGESTED SUBSTITUTES

371 Purchasing Agent

819 Commissary Steward

824 Mess Sergeant

QUARTERMASTER SUPPLY TECHNICIAN (821)

Supply Noncommissioned Officer

Assists in one or more functions of procurement—receipt, storage, issue and salvage of Quartermaster supplies.

Supervises supply personnel in estimating stock requirements. Prepares, consolidates, and edits requisitions and purchase orders. Initiates shipping tickets, receiving reports, and reports of survey and exchange orders. Supervises warehouse personnel in connection with receipt, storage, and issue of supplies. Checks supplies received, issued, or

shipped, and is responsible for reporting discrepancies noted in quantity, quality, or physical condition of supplies. Supervises checking of property submitted for salvage.

Must have general knowledge of procurement regulations, warehousing procedures, and regulations governing property accountability and responsibility. Must be familiar with the nomenclature and classification of Quartermaster supplies.

UTILITIES NCO (822)

Utilities Technician (AAF)

Supervises enlisted specialists in maintenance of utilities, installations, or equipment such as light, heat, power, and water supply, sewage disposal and sanitary systems, roads, buildings, and grounds at a post, camp, station, or depot.

Inspects roads, areas, buildings, and all utility equipment and installations, reporting all needed repairs to utilities officer and foreman for type of work concerned. Checks to see that workers are promptly dispatched and that repair work is properly performed. Receives requests for emergency repairs, such as plumbing, stoppages, and faulty electric wiring, and sees that the work is done.

SUGGESTED SUBSTITUTE

059 Foreman, Construction

MESS SERGEANT (824)

Supervises and controls the activities of mess personnel in garrison or field kitchen installations.

Prepares menus from a master menu. Supervises the preparation of food in accordance with established sanitary and dietetic principles. Makes authorized requisitions and purchases of supplies. Inspects delivered supplies for condition and proper quantity and inspects stored food for spoilage. Keeps record of supplies, equipment, and mess account.

Must have sufficient knowledge of dietetics to maintain a balanced diet. Must be able to direct and control the preparation of palatable meals under unfavorable field conditions. Must be familiar with Army methods of accounting and inventory as they apply to food.

SUGGESTED SUBSTITUTE

060 Cook

MEDICAL SUPPLY NCO (825)

Medical Supply Technician (AAF)

Supervises the requisitioning, storing, and issuing of medical supplies and equipment.

Supervises the maintenance of stock record cards, preparation of requisitions, issue of stock and equipment, handling of medical supply correspondence,

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and preparation of memorandum and consolidated receipts. Takes physical inventory of stock on hand and prepares status reports.

Must be familiar with medical terminology, supplies, and equipment. Must be familiar with manner of storage of medical supplies. Must be familiar with Army regulations governing property accountability and responsibility.

SUGGESTED SUBSTITUTES

657 Medical Aidman
821 Quartermaster Supply Technician
835 Supply Clerk

ARMY AIR FORCES SUPPLY TECHNICIAN (826)

Requisitions, stores, and issues hand tools, mobile repair equipment, and a variety of small parts used in servicing or repair of airplanes and aircraft equipment.

Receives verbal requests for tools, equipment, and parts from mechanics and issues them on memorandum receipt. Maintains stock levels of hand tools, mobile repair equipment, nuts and bolts, and miscellaneous aircraft parts and replacement items such as hydraulic units, batteries, electric cables, and engine parts. Maintains proper stock levels and keeps records of articles on requisition, stock on hand, tools issued, and storage credits. Uses standard nomenclature lists and technical orders to identify maintenance equipment, tools, and other equipment. Prepares routine supply reports.

May supervise other technical supply clerks.

Must be familiar with aircraft maintenance operations and have a working knowledge of the nomenclature of parts, equipment, and tools used in various phases of aircraft servicing and repair operations.

SUGGESTED SUBSTITUTES

348 Parts Clerk, Automotive
848 Parts Clerk, Armament

MASTER GUNNER, ANTI-AIRCRAFT (832)

Master Gunner, Automotive Weapons
Master Gunner, Barrage Balloon
Master Gunner, Searchlight

Performs a variety of duties in connection with operations and survey functions of anti-aircraft automatic weapons, searchlight, or barrage balloon units.

At direction of reconnaissance officer, surveys area selected for location of command posts, battery areas, or balloon sites. Determines location of guns to cover entire area, eliminating any dead space and determining safe field of fire to prevent danger to

other crews. Locates searchlight batteries to form a searchlight pattern. Picks balloon sites to cover entire defense area, taking into account prevailing winds. Using alidade and plane table, makes surveys for preparation of topographic maps of small areas. With drafting set, prepares overlays showing routes of march, position of weapons, and location of vital installations. Prepares and maintains files of special maps, charts, and sketches. Performs such miscellaneous drafting as may be required.

May lay out plans for minor construction, including drainage systems, grading, and roads. May maintain situation map and journal.

SUGGESTED SUBSTITUTES

671 Master Gunner, Anti-aircraft (Gun)
814 Operations Noncommissioned Officer

ARTILLERY MECHANIC, ANTI-AIRCRAFT (AUTOMATIC WEAPONS MINOR MAINTENANCE (833)

Performs various duties connected with minor maintenance of gun and carriage of a 37- or 40-mm anti-aircraft gun and auxiliary equipment.

Periodically disassembles major parts of gun including recoil assembly, breech block mechanism, barrel assembly, and automatic loader, inspecting and cleaning working parts. Replaces such defective or worn parts as set screws, bolts, cotter keys, flash hiders, tube collar sleeves, and automatic feed plungers. On carriage, adjusts such vital parts as equilibrators, axle balancing mechanism, and electric brakes. Cleans and lubricates or packs bearing surfaces and revolving parts, including hubs, wheel bearing, jack handles, ball bearings, trunnion bearings, and elevating and traversing gears.

Performs other authorized first and second echelon repair or maintenance work. Adds recoil fluid and gas as needed. Instructs operating crews in care and maintenance of guns.

Uses a wide variety of tools, including monkey wrenches, screw drivers, pliers, socket wrenches, end wrenches, punches, mechanic's and bronze hammers, chisels, and automatic loader tools.

SUGGESTED SUBSTITUTES

802 Artillery Mechanic, Minor Maintenance
834 Artillery Mechanic, Anti-aircraft (Gun) Minor Maintenance

ARTILLERY MECHANIC, ANTI-AIRCRAFT (GUN) MINOR MAINTENANCE (834)

Performs various duties connected with minor maintenance of gun and carriage of a 90-mm, 105-mm, 120-mm and 3-inch anti-aircraft gun and auxiliary equipment.

Periodically disassembles, inspects, and cleans

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major parts of gun including breech mechanism, firing mechanism, firing pin assembly, and fuze setter. Drains and refills recoil cylinders as required. Replaces defective or worn-out parts such as extractors, set screws, and cotter keys. Cleans and lubricates bearing surfaces and revolving parts, including hubs, wheel bearings, jack handles, ball bearings, trunnion bearings, and elevating and traversing gears. Performs other authorized first and second echelon repair or maintenance work. Supervises and instructs operating crews in proper care and maintenance of guns.

Must be thoroughly familiar with mechanical functioning of antiaircraft guns and be capable of rapidly servicing guns under field conditions. Must be able to use a wide variety of tools, including monkey wrenches, screw drivers, pliers, socket wrenches, end wrenches, punches, mechanic's and bronze hammers, and chisels.

SUGGESTED SUBSTITUTES

802 Artillery Mechanic, Minor Maintenance
833 Artillery Mechanic, Antiaircraft (Automatic Weapons) Minor Maintenance

SUPPLY CLERK (835)

Receiving and Shipping Stock Clerk
Checker Stock Control Clerk
Shipping Clerk Stock Record Clerk

Performs various clerical and stock-handling duties in connection with receipt, storage, issue, and shipping of general supplies and equipment in an Army warehouse or unit supply section.

Checks incoming and outgoing supplies against items listed on requisitions, invoices, and bills of lading, counting, grading, or weighing articles involved. Stores materials in storage bins, racks, and compartments, arranging items in such manner as will facilitate taking of inventories and provide protection against dampness and deterioration. Receives and fills requisitions for supplies and equipment by directly issuing articles to authorized personnel or by preparing items for shipment.

Maintains stock records pertaining to such items as amount, kind, and value of supplies and equipment received, issued, or expended and balance on hand. Anticipates and prevents stock depletions by estimating required amounts for future use.

Should be familiar with Army regulations governing accountability, responsibility, and supply procedures, including maintenance of stock and stock record accounts. Should be familiar with principles of military bookkeeping. Proficiency in use of typewriter desirable.

SUGGESTED SUBSTITUTES

055 Clerk, General 405 Clerk-Typist

SOUND RECORDER, FIELD ARTILLERY (836)

Operates and maintains sound recording oscillograph equipment used in field artillery sound ranging.

Connects oscillograph by wire to microphone and telegraph installations at forward observation posts. Checks functioning of microphones by observing recording dials on oscillograph. Establishes telephone communications with sound ranging observers, relaying necessary instructions. Accomplishes sound recording by means of coordinated action of a special relay unit and oscillograph camera action. Prepares or directs preparation of chemical solution to wash sound film which is developed automatically. Supplies film to readers who determine time intervals. Maintains set by repairing and replacing parts, using electrician's hand tools.

Must have knowledge of electricity including relays, electrical circuits, filters, audio frequency amplification, electrical damping, and thermionic tubes.

SUGGESTED SUBSTITUTES

078 Electrician
571 Electrician, Harbor Defense

AMPHIBIAN TRACK VEHICLE MECHANIC (837)

Repairs and maintains amphibian vehicles by cleaning, adjusting, tearing down, repairing, replacing parts, and reassembling motors, clutches, and differential, and cleans and adjusts track.

Cleans and adjusts spark plugs, carburetor, fuel pump, and fuel lines. Grinds and adjusts valves, and replaces pistons, rings, and rods. Adjusts clutch and replaces clutch plate. Replaces gear units in transmission and differential. Cleans, tightens, and adjusts track. Lubricates all moving parts.

Uses auto mechanic's tools.

Must be familiar with the operation of the vehicle on land and water.

SUGGESTED SUBSTITUTES

905 Mechanic, Engine, Wheel Vehicle (Gasoline)
908 Mechanic, Chassis, Track Vehicle
965 Mechanic, Automotive, Wheel Vehicle (Third Echelon)

SEAMAN, LANDING CRAFT (838)

Boatswain Landing Craft
Coxswain, Landing Craft
Landing Craft NCO

Performs a variety of duties aboard a landing craft used in amphibious operations in a combat zone.

Handles lines and ropes when docking or anchor-

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ing craft. Cleans and paints hull, including scraping and sanding old paint. Operates winch to lower ramp for disembarking troops or for unloading materials and equipment.

Using semaphore signals, relays messages to other craft and shore stations. Signals to coxswain when approaching sand bars, reefs, barriers, and other underwater obstructions.

Must know simple navigation, splicing, knots, rigging, and semaphore signalling.

At supervisory level, is responsible for steering and maneuvering craft, using charts and compass. Supervises storing of cargo on craft and is responsible for coordination and control of work of crew members.

SUGGESTED SUBSTITUTE

065 Seaman

MARINE ENGINEMAN (839)

Operates and maintains gas or Diesel engine and auxiliary equipment used in propelling landing craft.

Inspects motor before starting for amount of gas or oil in fuel tank, oil in crankcase and gear box. Checks fan belt, ignition wiring, and engine mounts. Starts engine and observes ammeter, oil gauge, rpm indicator, and temperature during operation. Regulates speed of engine and engages clutch to start or reverse direction of craft upon signal from coxswain. Inspects engine during or after operation. Tightens hose connections, motor mounts, and engine head. Cleans and adjusts spark plugs, carburetor, injectors, and lubricates equipment. Tears down, cleans, and reassembles reverse and reduction gears. Replaces packing in pump and keeps engine and equipment clean.

Uses wrenches, pliers, screw drivers, hammer, and gauges.

Must have a thorough knowledge of the operation of the gasoline and Diesel engine. Must be familiar with the duties of coxswain and seaman.

SUGGESTED SUBSTITUTES

014 Automotive Mechanic (Second Echelon)

081 Engineman, Operating

ARTILLERY MECHANIC, ANTI-AIRCRAFT (SELF-PROPELLED) MINOR MAINTENANCE (841)

Performs various duties connected with minor maintenance of turret and machine guns of self-propelled anti-aircraft equipment.

Periodically disassembles, inspects, and cleans major units of turret including control units, differential, turret drive motor, and one cylinder mo-

tor. Tightens power belts and services power chargers and charging motor. Using allenhead wrenches, thin blade screw drivers, wire cutters, machinist's and long nose pliers, punches, and hammers, repairs or improvises parts to replace defective equipment. Tests and tightens electrical connections operating turret and solenoids firing the machine guns. Cleans and lubricates or packs bearing surfaces and revolving parts, including the azimuth and vertical gear drive boxes, differential, and base ring.

SUGGESTED SUBSTITUTES

802 Artillery Mechanic, Minor Maintenance

833 Artillery Mechanic, Anti-aircraft (Automatic Weapons) Minor Maintenance

RADAR OPERATOR, AN/TPQ (DESIGNATED MODEL) (842)

Operates a designated model of radar AN/TPQ or similar equipment. Operates equipment by manipulation of tuning or operating controls; observes readings on dials and indicators; furnishes transmission data to operating teams on such matters as frequency, pulse recurrence frequency and bearing; assists in installation of receiver, antenna, and associated antenna equipment; maintains log and other records; assists in the plotting of operational data.

Uses small hand tools in performing maintenance and repair work which consists of inspecting, dusting, and oiling equipment; making simple repairs, adjustments, and replacements of parts such as fuses, filters, batteries, pilot lights, tubes, and antennas.

Must be thoroughly familiar with the tuning of radar receivers, associated analyzers, and panoramic equipment. Must be able to read accurately various meters, dials, and indicators from which search data are obtained. Must be able to read maps, barometric altimeters, and surveying compasses.

RADAR OPERATOR, AN/TPT (DESIGNATED MODEL) (843)

Operates a designated model of radar AN/TPT or similar transmitting and receiving equipment. Operates equipment by manipulating tuning of operating controls in coordination with signals or instructions received from a control station. Assists in the installation of equipment, antenna, power units, transmitters, receivers, and telephone lines. Performs minor repairs and adjustments.

Uses small hand tools in performing maintenance and repair work which consists of inspecting, dusting, and oiling equipment; making simple repairs, adjustments, and replacements of parts such as

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fuses, filters, pilot lights, batteries, and tubes.

Must be familiar with the tuning of radio transmitters and receivers and be able to interpret accurately the readings of various meters and dials.

GUN CREWMAN, LIGHT ARTILLERY (844)

Ammunition Handler
Ammunition Noncommissioned Officer
Cannoneer
Gunner
Infantry Cannon Crewman

As a member of a 75-mm howitzer, 105-mm howitzer or gun artillery crew using fixed or semifixed ammunition, assists in moving, emplacing, firing, displacing, and withdrawing the piece in combat operations.

Performs one or more of the following operations during the firing mission: sets horizontal angle from established position by means of a panoramic sight, and manipulates gun traverse wheel to place gun on target. Makes additional changes in angular deflection as directed, to achieve fire precision or to transfer fire to other targets. Sets target range on range drum and target angle of site on angle-of-site scale. Carries, inspects, cleans, and passes ammunition. Attaches fuze to projectile using fuze wrench. Sets fuze for quick or delayed action, using fuze setter. Opens and closes breech and loads piece by hand, pushing round into breech until firmly seated. Fires piece by pulling hand lanyard. Using rammer and rammer staff removes unfired rounds or cartridge cases which cannot be ejected by extractor. Inspects bore and swabs with water. Cleans breech. When semifixed ammunition is used, removes projectile from cartridge case, withdraws excess powder increments and assists in such maintenance operation as cleaning, oiling, and rustproofing vital parts of gun. As member of 105-mm howitzer crew, places projectiles on loading barrow, using rammer to seat projectile in breech recess, removes and inserts powder charge, and inserts primer in firing mechanism block.

At supervisory level, is responsible for control, coordination, and tactical employment of light artillery pieces and crew members.

SUGGESTED SUBSTITUTES

845 Gun Crewman, Heavy Artillery
864 Gun Crewman, Medium Artillery
1531 Gun Crewman, Pack Artillery

GUN CREWMAN, HEAVY ARTILLERY (845)

Ammunition Handler Gunner
Ammunition Noncommissioned Officer Cannoneer

As crew member of a 240-mm howitzer or 8-inch

gun, or heavier caliber artillery gun or howitzer using separate loading ammunition, assists in moving, emplacing, firing, and withdrawing the piece in combat operations.

Performs one or more of the following operations during firing mission: sets horizontal angle from established position by means of panoramic sight and manipulates traverse wheel to place gun target. Makes additional changes in angular deflection as directed, to achieve fire precision or to transfer fire to other targets. Sets target range on range drum and target angle of site on angle-of-site scale. Opens and closes breech. Inspects and cleans projectile to prepare for loading and attaches fuze using fuze wrench. Sets fuze for quick or delayed action, using fuze setter. Places projectile on loading barrow, using rammer to seat breech recess. Removes powder charge from container and inserts it in breech recess. Inserts primer in firing-mechanism block. Fires piece by pulling hand lanyard. After misfire removes unfired round, using rammer and rammer staff. Inspects bore and swabs with water. Cleans breech and firing mechanism block. Assists in such maintenance operations as cleaning, oiling, and rustproofing of vital parts of gun.

At supervisory level, is responsible for control, coordination, and tactical employment of heavy artillery pieces and crew members.

SUGGESTED SUBSTITUTES

844 Gun Crewman, Light Artillery
864 Gun Crewman, Medium Artillery
1531 Gun Crewman, Pack Artillery

PORTABLE POWER GENERATOR OPERATOR (846)

Operates a mobile power generator which produces electric power for the operation of various machines or for the lighting of an installation.

Services, lubricates, and makes minor repairs to the engine, using screw drivers, wrenches, and grease guns. Starts engine and regulates engine speed by controlling supply of gasoline. Reads voltmeter and regulates voltage output of generator by a hand-controlled rheostat. Connects generator by cables to equipment or machinery for which it supplies power. Keeps an operations log.

May drive light or heavy truck.

SUGGESTED SUBSTITUTES

077 Powerhouse Engineer
081 Engineman, Operating

PROSTHETIC DENTAL SUPPLY CLERK (847)

Performs various clerical and stock-handling du-

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ties in connection with receipt, storage, issue, and stock listing of prosthetic dental supplies.

Maintains stock records of such materials as artificial teeth, facings, moldings, and backings.

Must be able to substitute any of these items when mold and shade requisitioned are not in stock. Must have general knowledge of supply procedures.

PARTS CLERK, ARMAMENT (848)

Receives, stores, issues, and identifies spare parts, tools, and group assemblies of small arms, artillery, fire control equipment, and other armament matériel.

Receives incoming parts and prepares stock record card, or enters data on previously prepared record card. Checks parts received against shipping ticket or memorandum to insure accuracy of numbers. Stores parts in bins or rack compartments, arranging items to facilitate issue and taking of inventories, marking all parts with identification numbers as specified in parts catalog. Issues or distributes parts and group assemblies to personnel, departments, or sections in accordance with written memoranda, noting each withdrawal on appropriate bin or record card. Periodically takes inventory of stock on hand and prepares requests for such items as will adequately maintain a balanced stock.

Must have a practical working knowledge of armament parts and subassemblies, including description, nomenclature, and interchangeability of parts. Must be thoroughly familiar with supply procedure and regulations governing accountability and responsibility for government property, including maintenance of stock and stock record accounts.

SUGGESTED SUBSTITUTES

- 242 Toolroom Keeper
- 348 Parts Clerk, Automotive
- 802 Artillery Mechanic, Minor Maintenance

RADAR MECHANIC, TROOP CARRIER (849)

Performs first and second echelon maintenance and work on radio sets and equipment SCR-595/695, AN/APN-5, AN/APN-1, AN/TPN-1, RC-24, BABS and similar devices. Tests, cleans, and adjusts the various types of apparatus covered above.

RADAR MECHANIC, NIGHT FIGHTER (850)

Performs second echelon maintenance and repair on radio sets SCR-595/695, SCR-520/720, SCR-540, SCR-729 and similar devices. Tests, cleans and adjusts the various types of apparatus covered above.

RADAR MECHANIC, BEACON (851)

Performs first and second echelon maintenance

and repair on radio sets and equipment Navy Type YH/YJ, SCR-621, SCR-620, SCR-620½, SCR-640, BABS and similar devices. Tests, cleans, and adjusts the various types of apparatus covered above.

RADAR MECHANIC, RCM (852)

Performs first and second echelon maintenance and repair and operates radio equipment such as SCR-587 and similar devices. Tests, cleans, and adjusts the various types of apparatus covered above.

RADAR MECHANIC, NAVIGATION (853)

Performs second echelon maintenance and repair on radio sets and equipment SCR-622/722, RC-24, SCR-518, SCR-718, and similar devices. Tests, cleans, and adjusts the various types of apparatus covered above.

RADAR MECHANIC, SEA SEARCH (854)

Performs second echelon maintenance and repair on radio sets and equipment SCR-717, SCR-729, SCR-595/695 and similar devices. Tests, cleans, and adjusts the various types of apparatus covered above.

DENTAL TECHNICIAN (855)

Assists Dental Officer in rendering routine dental service.

Prepares patients for dental work.

Sterilizes and lays out instruments and medical supplies.

Mixes dental cement and amalgams for fillings. Prepares hypodermic syringes and other medicines as necessary. Keeps appointment book and other office records and performs other nonprofessional duties as assigned.

May scale and polish teeth, using dental instruments.

May assist in operating X-ray equipment and developing X-ray photographs of defective teeth.

Should be thoroughly familiar with nomenclature, medications, and preparations, and equipment used in dental clinic.

SUGGESTED SUBSTITUTES

- 067 Dental Laboratory Technician
- 409 Medical Technician

RADAR MECHANIC, SEA SEARCH (LAB) (856)

Performs second echelon maintenance and repair on radio sets and equipment SCR-717, SCR-729, SCR-595/695, RC-217, and similar devices. Tests, cleans, and adjusts the various types of apparatus covered above.

Completion of prescribed radar mechanic's

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course at an Army school or equivalent experience required.

MEDICAL LABORATORY TECHNICIAN (858)

Conducts microscopic and chemical tests and analyses at a medical laboratory to determine presence of germs and chemical composition of body fluids, and to prepare cultures, vaccines, and serums.

Sets up and adjusts apparatus, such as beakers, tubes, mortars, burners, centrifuge, microscope, and slides.

Accomplishes complete blood count and allied hematological procedures, including malaria smears, blood typing, and sedimentation rate.

Examines blood, urine, feces and other compositions for their chemical content by qualitative and quantitative methods. Identifies by smear and cultural techniques pathogenic bacteria and parasites. Performs standard serological procedures for syphilis, typhoid fever, typhus, and other infectious diseases.

May operate electrocardiograph and basal metabolism equipment and record data. May process human blood to prepare plasma.

Should have working knowledge of laboratory techniques, histology, and parasitology.

SUGGESTED SUBSTITUTES

409 Medical Technician
411 Chemical Laboratory Assistant
657 Medical Aidman

PHARMACY TECHNICIAN (859)

Veterinary Pharmacy Technician

Compounds and dispenses medicines and prepares stock solutions and powders according to specifications.

Determines quantity and kind of chemicals and drugs from prescription or stock number and weighs out on scales, or measures, proper amounts. Pulverizes ingredients in mortar, measures solutions in graduated cylinders, pours liquids into bottles, and affixes labels, stating name of compound and dosage, to boxes and bottles. Maintains file of all prescriptions and record of all narcotics received and issued.

Must have knowledge of apothecaries' system and be able to use balances, hydrometers, thermometers, and chemical equipment. Must have knowledge of chemistry and physical properties of solid and liquid matter.

SUGGESTED SUBSTITUTES

292 Chemist
409 Medical Technician

411 Chemical Laboratory Assistant
657 Medical Aidman
858 Medical Laboratory Technician

RADAR MECHANIC (GEE) (860)

Performs first and second echelon maintenance and repair on radio equipment Gee, Mark II and similar devices. Tests, cleans, and adjusts the various types of apparatus covered above.

SURGICAL TECHNICIAN (861)

Performs a variety of nonprofessional surgical and medical duties in rendering surgical care and treatment to patients.

Prepares operating room and surgical equipment for use, cleaning and washing equipment, and sterilizing linen, equipment, and instruments. Assists operating personnel, preparing patients for operation, assisting in the administration of hypodermic injections and anesthetics, and handing instruments and materials to surgeon. Assists in transporting patients to and from operating rooms, gives first aid treatment, changes dressings and bandages, treats minor injuries such as cuts, bruises, and boils, and performs other duties in the preoperative and postoperative care and treatment of surgical cases.

Must have knowledge of anatomy, physiology, materia-medica, and operating-room procedures.

SUGGESTED SUBSTITUTES

409 Medical Technician
657 Medical Aidman

RADAR MECHANIC, IFF (862)

Test, adjusts, maintains and performs second-echelon repair on IFF equipments such as SCR-515, 595, 695 and Radar Sets AN/APS-13 and SCR-729.

Must have thorough understanding of circuits and construction of equipment, and be able to use related testing and measuring apparatus.

RADAR MECHANIC, GCA (863)

Operates GCA equipment and performs first- and second-echelon maintenance work in the field on all elements of ground controlled approach equipment, such as AN/MPN-1.

Test all GCA radar and radio equipment for faulty operation, makes minor repairs to or replaces defective components, cleans and adjusts equipment to maintain efficient operation, assembles and disassembles equipment as required for movement.

Sets up and aligns equipment for operation; observes and interprets radar data, and transmits this information to the GCA controller by means of suitable position indicators.

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Must be able to work efficiently under long periods of emotional stress, and have a general knowledge of instrument flying as gained from the Link Trainer and from flying. Should have some knowledge of air navigation.

GUN CREWMAN, MEDIUM ARTILLERY (864)

Ammunition Handler Cannoneer
Ammunition NCO Gunner

As a crew member of a 155-mm Howitzer or Gun, 4.5-inch Gun, or 8-inch Howitzer, using separate loading ammunition assists in moving, emplacing, firing, displacing, and withdrawing the piece in combat operations.

Performs one or more of the following operations during firing mission. Sets horizontal angle from established position by means of panoramic sight and manipulates traverse wheel to place gun target. Makes additional changes in angular deflection as directed, to achieve fire precision or to transfer fire to other targets. Sets target range on range drum and target angle of site on angle-of-site scale. Opens and closes breech, inspects and cleans projectile to prepare for loading and attaches fuze using fuze wrench. Sets fuze for quick or delayed action, using fuze setter. Places projectile on loading barrow, using rammer to seat breech recess. Removes powder charge from container and inserts it in breech recess. Removes powder charge from container and inserts it in breech recess. Inserts primer in firing-mechanism block. Fires piece by pulling hand lanyard. After misfire removes unfired round, using rammer and rammer staff. Inspects bore and swabs with water. Cleans breech and firing mechanism block. Assists in such maintenance operations as cleaning, oiling, and rustproofing of vital parts of gun. As crew member of 155mm gun places projectile on loading barrow, using rammer to projectile in breech recess.

At supervisory level, is responsible for control, coordination and tactical employment of medium artillery pieces and crew members.

SUGGESTED SUBSTITUTES

844 Gun Crewman, Light Artillery
845 Gun Crewman, Heavy Artillery
1531 Gun Crewman, Pack Artillery

RADAR OBSERVER, SEA SEARCH (866)

Operates and performs first echelon maintenance on radio sets and equipment SCR-517/717, SCR-729, and SCR-595/695. Must be physically qualified for flight duty, nonpilot.

RADAR MECHANIC, BOMBARDMENT (867)

Performs first and second echelon maintenance

and repair on radio equipment such as Airborne H2X and similar devices (ground duty). Tests, cleans, and adjusts the various types of apparatus covered above.

RADIO-TELETYPE MECHANIC (868)

Performs first and second echelon maintenance and repair on all types of radio-teletype mechanisms.

Must be authorized to perform duties in connection with secret and confidential cryptographic systems of the Army, according to specifications set forth in War Department Regulations. Must be thoroughly familiar with AR 380-5 and FM 24-10 and 24-8.

DF EVALUATOR (869)

Operates at an Evaluator station centrally located within a network of radio direction finder stations. Plots bearings on aircraft in flight and evaluates the probable accuracy of fixes derived from these bearings. Relays the result of evaluation made to aircraft lost in flight for the purpose of directing such aircraft safely to destination.

Must be familiar with various chart and map projections, possess knowledge of great circle tracks, true and magnetic bearings, and conditions affecting them. Must be able to interpret ionospheric conditions as they affect bearings made by radio direction finding devices. Must be familiar with operation of a direction finder network and possess a limited knowledge of air navigation.

CHEMICAL NONCOMMISSIONED OFFICER (870)

Chemical Technician (AAF)

Instructs in the means of identification, characteristics, and tactical use of the various field chemical agents. Conducts training in the use and care of gas masks and other CW protective equipment. Demonstrates the use of smoke pots to produce smoke screens. Trains others in individual decontamination measures and first aid for gas casualties. Supervises the construction of gasproof shelters, and the training of gas sentinels. Assists chemical officer in checking the proficiency of gas discipline.

Collects and identifies enemy chemical agents and matériel, assists chemical officer in evaluating information relative to chemical intelligence. Advises commanding officer of probable gas attack based on study of weather and terrain. Detects and posts gassed areas.

Assists administration of CW supplies for training purposes, in maintaining adequate supply of protective equipment; maintains CW equipment in good working order and supervises filling and de-

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contaminating operations; keeps records pertaining to issue and repair of CW equipment.

FACSIMILE OPERATOR (893)

Operates facsimile sending and receiving equipment, both page and tape type, and performs the photographic work required in facsimile transmission and reception.

Should be able to perform the reduction by photographic methods of large originals to sections smaller in size, suitable for facsimile page transmission. Must be able to perform routine maintenance involving simple adjustments none of which represents a major repair or adjustment.

FACSIMILE TECHNICIAN (894)

Installs, inspects, services, and repairs facsimile equipment.

Must have a comprehensive understanding of the operation and construction of sending and receiving facsimile equipment, back for page and tape operation. Must have a knowledge of photographic dark room procedure as applied to facsimile operation.

DIRECTOR REPAIRMAN, ELECTRICAL, HEAVY ANTI-AIRCRAFT ARTILLERY (899)

Inspects, lubricates, and repairs electrical fire control directors used in connection with anti-aircraft artillery of 3 inches and larger.

Examines instrument for efficient operating condition by setting in static and range problems, operating equipment, and checking dial reading and recordings against standard tolerance tables for errors. Repairs and replaces malfunctioning units, such as weak and burned out electrical components and talk amplifiers and multipliers, by disassembling unit, replacing worn or defective parts, and making necessary precision adjustments. Reassembles, inspects, and retests instrument.

Uses such tools and equipment as voltmeter, ammeter, ohmmeter, vernier depth gauge, stop watch pliers, screw drivers, tweezers, punch drive pin, adjustable and socket wrenches, and electric soldering iron.

Should have working knowledge of algebra and trigonometry.

SUGGESTED SUBSTITUTE

917 Director Repairman, Mechanical, Heavy Anti-aircraft Artillery

MUNITIONS WORKER (901)

Ammunition Handler
Packer, High Explosives

Performs various tasks in connection with storage and issue of all types of ammunition, including bombs and pyrotechnics.

Loads, unloads, and stores ammunition at am-

munition dumps, magazines, or ammunition supply points. Loads and unloads heavy projectiles and powder charges from trucks and freight cars and transports them by hand, hand trucks, or carts.

May assist in the destruction of defective or deteriorated ammunition.

Must have a thorough knowledge of safety regulations and ammunition handling procedures, including Ordnance ammunition identification code system.

Should be familiar with the examination of ammunition for such defects as dented or corroded cartridge cases. Should be familiar with operation of ammunition supply system.

SUGGESTED SUBSTITUTE

656 Submarine Mine Loader

SMALL-ARMS WEAPONS MECHANIC (903)

Machine Gun Mechanic
Weapons Mechanic, Aircraft
Weapons Mechanic, Hand and Shoulder
Weapons Repairman, Small-Arms

Maintains and makes third and fourth echelon repairs on all types of hand and shoulder weapons and machine guns, including submachine guns and aircraft machine guns.

Visually inspects and manually operates weapons to check for malfunctioning of such elements as bolt action, trigger tension, rifling in gun barrel, firing mechanisms, ejectors, ammunition feed mechanisms, and extractors. Disassembles and repairs and replaces worn and defective parts of such weapons as pistols, revolvers, rifles, carbines, riot guns, submachine guns, and 30- and 50-caliber machine guns. Reassembles weapon, lubricating, machining, grinding, and making precision adjustments of all parts to secure required clearance and tolerances.

Tests repaired weapons by simulated or actual firing of weapon. Must be able to fabricate simple replacement parts with the hand tool issued.

Uses such tools and equipment as combination and spanner wrenches, pliers, screw drivers, hammers, punches, drift pins, reamers, drills, engine lathe, drill press, power grinders, and precision gauges and micrometers.

For Army Air Forces, must be qualified in third or fourth echelon maintenance and repair of 20-mm, 37-mm, and 75-mm aircraft cannon.

Must be thoroughly familiar with construction and operating features of all types of small-arms weapons including nomenclature of replacement parts.

SUGGESTED SUBSTITUTES

511 Armorer
911 Airplane Armorer

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MECHANIC, ENGINE, WHEEL VEHICLE (Gasoline) (905)

Mechanic, Engine, Wheel Vehicle

Inspects and performs unit replacement, field repairs, and adjustments, and complete unit rebuilding of gasoline in-line engines in all types of military vehicles.

Examines malfunctioning engines to determine causes of faulty operation, checking such elements as valves, pistons and piston rings, crank shafts, connecting rods and bearings, and timing gears. Disassembles and replaces defectives or damaged subassemblies or completely rebuilds assemblies, making such major repairs as refacing and reseating of valves, taking up or replacing main and connecting rod and wrist pin bearings, and fitting and replacing cylinder sleeves and pistons.

May operate engine lathe and power grinders to secure proper tolerances and clearances in refitting replacement parts. May operate dynamometer tester in testing and adjusting newly rebuilt engines or in diagnosing trouble in malfunctioning engines.

Uses automobile mechanic's tools, including engine lathes, power grinders, and valve refacing equipment.

Must have a thorough knowledge of the principles of internal combustion engines.

SUGGESTED SUBSTITUTES

- 013 Diesel Mechanic
- 014 Automotive Mechanic (Second Echelon)
- 909 Mechanic, Engine, Track Vehicle

MECHANIC, CHASSIS, WHEEL VEHICLE (906)

Inspects and performs unit replacement, field repairs, adjustments, and complete rebuilding of the chassis and power train components of all types of wheel and half-track vehicles.

Examines vehicles for worn, damaged, or defective parts by visual inspection or by road testing vehicle, checking such elements as steering, wheel alignment, braking efficiency, gear shift, mechanism, and clutch operation. Disassembles, repairs, and makes adjustments on such units as front and rear axle assemblies, drive shaft, transfer case assembly, clutch and transmission, chassis frame, and wheel alignment, using such tools and equipment as hydraulic jacks, chain hoist, various size light and heavy open-end, straight, and socket wrenches, hand scraper, bearing pullers, screw drivers, hammers, yoke pullers, arbor presses, drill presses, bench vise, wheel and frame alignment equipment, and wheel balancer.

SUGGESTED SUBSTITUTES

- 014 Automotive Mechanic (Second Echelon)

- 905 Mechanic, Engine, Wheel Vehicle (Gasoline)
- 908 Mechanic, Chassis, Track Vehicle

MECHANIC, TURRET (907)

Inspects, tests, and performs unit replacement, field repairs and adjustments of stabilizers, auxiliary power plants, gun mounts, and complete unit rebuilding of traversing mechanisms used in turrets of tanks and other combat vehicles.

Determines causes of malfunctioning of turret units by visual inspection or by feel and sound while mechanically operating unit. Using auto mechanic's tools, including differential hoists, dismantles and removes turret unit or subassemblies. Disassembles and repairs or replaces defective or worn parts, performing grinding, scraping, or machining operations necessary to secure accurate fits within specified tolerances. Reassembles, lubricates, and makes final inspection to determine that all parts of turret are in satisfactory operating condition.

Must have a thorough knowledge of the construction and operation of turrets on military combat vehicles, including nomenclature of replacement parts.

SUGGESTED SUBSTITUTES

- 014 Automotive Mechanic (Second Echelon)
- 341 Shop Maintenance Mechanic
- 660 Tank Mechanic, Minor Maintenance
- 906 Mechanic, Chassis, Wheeled Vehicle
- 908 Mechanic, Chassis, Track Vehicle
- 913 Artillery Mechanic, Light

MECHANIC, CHASSIS, TRACK VEHICLE (908)

Performs unit replacement, field repairs and adjustments, trouble diagnosis, and complete rebuilding of units of power train and suspension systems of full track-laying vehicles other than tractors and artillery prime movers.

Visually examines and mechanically tests light, medium, and heavy tanks for malfunctioning of power train and suspension systems, observing for damaged or broken parts and listening for noises indicating improper functioning or defective gears and bearings. Disassembles, repairs, and replaces worn or defective parts of final drive gear assemblies, power take-off assemblies, stabilizer springs, stabilizer crank assemblies, clutch assemblies, steer clutch controls, transmission gears and gear shift mechanisms, track support rollers and assemblies, and cowl assemblies. Reassembles and installs repaired assemblies and subassemblies and tests vehicle for satisfactory operating condition.

Uses such tools and equipment as light and heavy hammers and pry bars, various size light and heavy

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box, stilson, socket and straight wrenches, pliers, screw drivers, chisels, punches, reamers, arbor presses, pullers, heavy hydraulic jacks, chain hoists, and welding equipment.

SUGGESTED SUBSTITUTES

660 Tank Mechanic, Minor Maintenance
906 Mechanic, Chassis, Wheel Vehicle

MECHANIC, ENGINE, TRACK VEHICLE (909)

Inspects and performs unit replacement, field repairs, or complete rebuilding of gasoline or Diesel engines.

Inspects and tests malfunctioning gasoline radial engines, Diesel and gasoline inline internal combustion engines and accessory equipment in track-laying vehicles to ascertain extent and nature of repairs required. Repairs, adjusts, and makes sub-assembly and assembly replacements necessary to restore engine to satisfactory operation. Performs major overhaul and rebuild of engines by disassembling and carefully examining all parts of such assemblies and subassemblies as cylinders, crankcase, front and rear sections, diffuser section, and other internal mechanisms to determine wear and condition of parts. Repairs and replaces worn and defective parts, reassembles units and engine, and tests on engine test block, using such tools and equipment as adaptors, arbor presses, drills and taps, various size pullers and reamers, straight and socket wrenches, hammers, pliers, screw drivers, valve clearance adjusting screw wrench, bench vises, soldering irons, engine speed gauge, and chain hoists.

May make minor repairs on such units as carburetors, superchargers, fuel pumps, and magnetos.

Uses feeler gauges, inside and outside micrometers, and cylinder bore gauges.

SUGGESTED SUBSTITUTES

684 Airplane Power Plant Mechanic
905 Mechanic, Engine, Wheel Vehicle (Gasoline)

AIRPLANE ARMORER (911)

Performs first and second echelon maintenance on all armament within the unit and loads bombs and ammunition in aircraft.

Periodically examines aerial machine guns and other aircraft armament and equipment such as aerial cannon, bomb racks, bomb release mechanisms, gun mounts, gun turrets, and pyrotechnics for cleanliness and proper functioning. Installs armament and equipment and checks their completeness prior to missions. Removes and replaces aircraft armament to be serviced or repaired. Removes and replaces bombsights. Inspects, disassembles, cleans, repairs, assembles, and makes parts replacements

to such weapons as .50-caliber machine guns, 30-caliber machine guns, 37-mm cannon, rifles, carbines, and pistols.

Uses combination tool, wrenches, screw drivers, micrometers, depth gauges, and other hand or bench tools in making these repairs. Loads bombs on bomb racks of aircraft prior to missions.

Must be familiar with armament inspection and maintenance procedures, and with safety regulations in handling transporting and loading bombs and other ammunition. Must be familiar with safety regulations pertaining to chemical warfare.

ELECTRICIAN, AUTOMOTIVE (912)

Automotive Electrician, Fourth Echelon (AAF)
Electrician, Track and Wheel Vehicle
Storage Battery Electrician

Installs, tests, repairs, or rebuilds ignition systems, starters, coil and panel instruments, wiring, and other electrical systems and equipment on all types of Army vehicles and automotive equipment.

Determines causes of malfunctioning of electrical units or systems by visual inspection or by use of such testing devices as voltmeter, ammeter, and tachometer. Using electrician's tools, disassembles, repairs, and replaces defective or worn parts and wiring and makes adjustments to restore unit or system to satisfactory working condition.

Must have a thorough knowledge of the construction and operation of automotive electrical systems including all their component parts. Must be able to use testing devices to determine condition of part or unit and be able to repair or select and install suitable replacement parts.

SUGGESTED SUBSTITUTES

014 Automotive Mechanic (Second Echelon)
138 Motorcycle Mechanic

ARTILLERY MECHANIC, LIGHT (913)

Inspects, tests, and performs field repairs and adjustments, unit replacements, or complete rebuilding of light artillery weapons and auxiliary equipment in a mobile or fixed artillery repair shop.

Determines causes of malfunctioning of such units as breech-block, firing mechanisms, recoil and counterrecoil, elevating and traversing equipment, and shock absorbing devices, by visual inspection, mechanical operation of unit, and by use of such testing devices as vernier calipers, pressure gauges, and spirit levels. Using artillery mechanic's hand tools, repairs or replaces assembly or sub-assemblies or otherwise tears down and completely rebuilds units, examining each part carefully for wear, breaks, or other undesirable characteristics. Replaces worn and broken parts and reassembles

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unit, lubricating all moving parts and making adjustments for alignment and clearance.

Must have knowledge of the construction, operation, and nomenclature of light artillery weapons. Must know the nomenclature of replacement parts.

SUGGESTED SUBSTITUTES

- 341 Shop Maintenance Mechanic
- 802 Artillery Mechanic, Minor Maintenance
- 914 Artillery Mechanic, Heavy
- 915 Artillery Mechanic, Heavy Antiaircraft

ARTILLERY MECHANIC, HEAVY (914)

Artillery Mechanic, Seacoast

Inspects, tests, and performs field repairs and adjustments, unit replacements, or complete rebuilding of heavy artillery weapons and auxiliary equipment in a mobile or fixed artillery repair shop.

Determines causes of malfunctioning of such units as breech block, firing mechanism, recoil and counterrecoil, elevating and traversing equipment, and shock-absorbing devices, by visual inspection, mechanical operation of unit, and by use of such testing devices as vernier calipers, pressure gauges, and spirit levels. Using artillery mechanic's tools, repairs or replaces assembly or subassemblies or otherwise tears down and completely rebuilds units, examining each part carefully for wear, breaks, or other undesirable characteristics. Replaces worn and broken parts and reassembles unit, lubricating all moving parts and making adjustments for alignment and clearance.

Must have knowledge of the construction and operation and nomenclature of heavy artillery weapons. Must know the nomenclature of replacement parts.

SUGGESTED SUBSTITUTES

- 341 Shop Maintenance Mechanic
- 802 Artillery Mechanic, Minor Maintenance
- 913 Artillery Mechanic, Light
- 915 Artillery Mechanic, Heavy Antiaircraft

ARTILLERY MECHANIC, HEAVY ANTI-AIRCRAFT (915)

Artillery Repairman, Heavy Antiaircraft (AAF)

Inspects, tests, and performs major repairs, unit replacements or complete rebuilding of antiaircraft artillery of larger than 40-mm caliber in a mobile or fixed artillery repair shop.

Determines causes of malfunctioning of equipment by visual inspection and by use of such testing devices as vernier calipers, pressure gauges, and spirit levels. Using such hand and bench tools and equipment as hammers, screw drivers, various size socket and straight wrenches, hand-power drill,

block-and-tackle, and hoists, repairs and replaces defective assemblies of breechblock and firing mechanism, recoil and counterrecoil systems, shock absorbing devices, and traversing and elevating mechanisms.

SUGGESTED SUBSTITUTES

- 511 Armorer
- 802 Artillery Mechanic, Minor Maintenance
- 834 Artillery Mechanic, Antiaircraft, Minor Maintenance (Gun)
- 903 Small Arms Weapons Mechanic
- 913 Artillery Mechanic, Light
- 978 Artillery Mechanic, Light Antiaircraft

DIRECTOR REPAIRMAN, MECHANICAL, HEAVY ANTI-AIRCRAFT ARTILLERY (917)

Inspects, repairs, adjusts, and lubricates fire control directors, such as M7, used with antiaircraft artillery of greater than 40-mm caliber.

Disassembles fire control directors and inspects parts for wear and breakage. Repairs or replaces worn or broken parts such as rate and altitude rate mechanism, slip clutches, switches, director transmitters, spot dials, and handwheels. Makes precise adjustments to internal gears and units. Lubricates moving parts.

Equipment includes voltmeter, ammeter, ohmmeter, screw drivers, Vernier depth gauge, electric soldering iron, solder, wrenches, tweezers, and punches.

Must be familiar with construction and operation of electrical fire control apparatus.

SUGGESTED SUBSTITUTES

- 634 Fire Control Electrician, Antiaircraft (Gun)
- 899 Director Repairman, Electrical, Heavy Antiaircraft Artillery
- 918 Fire Control Repairman, Light Antiaircraft Artillery
- 919 Control System Repairman, Heavy Antiaircraft Artillery

FIRE CONTROL REPAIRMAN, LIGHT ANTI-AIRCRAFT ARTILLERY (918)

Control System Repairman, Light AAA

Director Repairman, Light AAA

Inspects, repairs, adjusts, and lubricates control directors and remote control system used in connection with antiaircraft artillery of 40-mm caliber or less.

Disassembles fire control directors and remote control systems and inspects parts for wear and breakage. Repairs or replaces worn or broken parts such as rate and altitude rate mechanism, slip clutches, switches, director transmitters, spot

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dials, and handwheels. Makes precise adjustments to internal gears and units. Lubricates moving parts.

Tools and equipment include voltmeter, ammeter, ohmmeter, screw drivers, Vernier depth gauge, electric soldering iron, solder, wrenches, tweezers, and punches.

Must be familiar with construction and operation of fire control apparatus.

SUGGESTED SUBSTITUTES

- 634 Fire Control Electrician, Antiaircraft (Gun)
- 913 Artillery Mechanic, Light
- 919 Control System Repairman, Heavy Antiaircraft Artillery

CONTROL SYSTEM REPAIRMAN, HEAVY ANTIAIRCRAFT ARTILLERY (919)

Disassembles and assembles for cleaning, repair, adjustment, inspection, and lubrication the component parts of antiaircraft artillery fire control data transmission systems used for weapons of caliber larger than 40-mm.

Services generators and such assemblies as multiple-conductor cables, junction boxes, transmitter, repeater, receptacle box, azimuth and elevation indicator, pole receptacle, fuze indicator, and distribution box, by making electrical and mechanical adjustments, repairs, or replacements. Locates source of electrical difficulty, using such testing devices as ohmmeter, ammeter, voltmeter, and revolution counter.

Uses electrician's tools.

SUGGESTED SUBSTITUTES

- 304 Electric Motor Repairman
- 912 Electrician, Automotive
- 918 Fire Control Repairman, Light Antiaircraft Artillery

HEIGHT FINDER REPAIRMAN (921)

Maintains and makes major repairs on all height finders used in antiaircraft and seacoast artillery.

Checks calibration by sighting on a fixed point of known distance to determine whether required tolerance can be obtained by regulating various vernier screws. Disassembles instrument to determine type of repair necessary. Checks adjustment and alignment of lenses and prisms and replaces defective parts. Checks gear mechanism for wear, adjusting backlash by filing high spots on meshing gears or by replacing defective parts. Lubricates mechanism and cleans optical system, using solvents and lens paper. Reassembles instrument and checks calibration.

Operates a bench lathe, drill press, and bench

grinder to make unobtainable parts or special tools. Uses special screw drivers, wrenches, files, pliers, tweezers, hand-drills, air syringe, electric soldering iron, and magnifying glass.

Must be able to work to minute tolerances.

SUGGESTED SUBSTITUTES

- 098 Instrument Repairman, Nonelectrical
- 922 Instrument Repairman, Fire Control

INSTRUMENT REPAIRMAN, FIRE CONTROL (922)

Maintains and makes major repairs on all types of fire control instruments, such as range finder, aiming circle, battery commander's telescope, and nonoptical instruments.

Sets up and levels fire control instrument on fixed target to determine maladjustment of equipment, and makes adjustments to bring instrument within required tolerance. Repairs malfunctioning equipment by completely disassembling units, cleaning and examining such elements as lenses, prisms, and worn gear mechanisms. Checks all lenses and prisms for aberrations, replaces worn or defective parts, and reassembles and checks holders to make sure all parts will be held securely. Tests instruments possessing double optical systems for proper columnation. Operates precision bench lathes, drill press, and bench grinders to fabricate unobtainable parts, special tools, and for machining and grinding replacement parts to secure proper alignment and clearances. Makes final inspection of fire control instruments.

Uses such tools and equipment as instrument repairman's tools, bench lathes, spindle drills, collimators, and vernier gauges.

Must have knowledge of the construction and operation of all types of fire control instruments.

SUGGESTED SUBSTITUTES

- 098 Instrument Repairman, Nonelectrical
- 381 Watch Maker
- 921 Height Finder Repairman

WELDER, ARMOR PLATE (923)

Performs oxacetylene and electric arc welding on various types of armor plate, including homogeneous and face-hardened materials.

Welds armor plate on turrets, bodies, and shields of tanks, armored cars, half track, armored trains, amphibian tanks and other military vehicles, using acetylene or electric arc welding equipment. Bolts or clamps armored plate in position for welding. Assembles welding equipment, acetylene or electric arc depending on type of welding necessary, position of plate, and stage of metals. Welds armor plate and forms a smooth-finished surface. Re-

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pairs dents, cracks, and holes in armor plate by welding armor plate over damaged surface.

Equipment includes acetylene torch, cutting assembly, and set of tips, electric arc welding apparatus, hand operated lever shears, electrically powered grinder and burnishing machines, hand-operated bead former, electrically powered tubing saw, steel welding bench, combination rule and set, dividers, wrenches and electric drill.

Should be able to read blue prints. Should be able to plan and construct jigs for holding parts together during welding process.

SUGGESTED SUBSTITUTE

256 Welder, Combination

BOMB SALVAGE TECHNICIAN (924)

Bomb Salvager

Performs various technical operations in connection with the excavation and disposal of unexploded enemy demolition and fragmentation bombs.

Surveys and lays out area to be excavated. Sets up equipment and by use of earth-boring machine, jack hammers, hand shovels, and shoring timber, removes and braces earth or debris surrounding bomb, taking every precaution to prevent its accidental explosion. Operates special bomb disposal equipment to neutralize explosive power of bomb and removes missile to designated area for destruction. Prepares report on completed operations, listing such information as will assist in future operations.

May supervise and instruct personnel in technical operations of bomb disposal equipment.

Must be familiar with all types of enemy fuses and demolition and fragmentation bombs, and with operation of special bomb disposal equipment.

AIRCRAFT ENGINEERING TECHNICIAN (925)

Aircraft Engineering Chief

Airplane Inspector

Line Chief

Mobile Repair Unit Chief

Technical Inspector

Supervises third and fourth echelon of Army Air Forces maintenance or technical inspection activities in a repair shop or technical inspection office.

Supervises workers representing several distinct trades and specialties in the various shops and sections through their immediate superiors. Assigns tasks to the various shops and sections and coordinates the operation of the entire organization. Checks the assignment of personnel. Assists in diagnosing trouble as problems arise. Checks repair work performed by maintenance personnel.

Reviews all technical orders and data, determines their application to airplanes and equipment for which he is responsible, and explains their contents to subordinates. Ascertains that periodic inspections of airplanes and equipment are performed at the proper time and in the manner specified by regulations.

Approves repairs made to equipment and grounded airplanes in order to assure airworthiness and high quality in work performed by maintenance and repair personnel.

May direct the maintenance, repair, and salvage of damaged airplanes that can be performed by personnel and equipment of a mobile repair unit. May decide action to be taken in connection with damaged airplanes. May exercise administrative control of unit while it is operating away from home base.

Must have a thorough knowledge of supply, maintenance, and inspection procedures of the Army Air Forces. Should be thoroughly familiar with maintenance of all types of airplanes. Should know fire prevention rules and safety procedures for shops and hangars.

MECHANIC, FUEL INDUCTION (926)

Carburetor Specialist

Fuel Induction Repairman (AAF)

Inspects, tests, and performs complete overhaul and rebuild operations on carburetors, injectors, blowers, and superchargers used on military vehicles.

Disassembles, repairs, and replaces such worn, damaged, or defective parts of Diesel injectors, carburetors, fuel, and oil pumps, and primers as floats, float valves, pivot points, needle valves, piston stem bushings, and accelerator pump pistons. Cleans, inspects, tests, and performs such grinding, machining, and adjusting of parts as is necessary to securely fit them within specified tolerances, using such tools and equipment as carburetor repair tools, engine lathes, electric hand-drills, high pressure gauges, hydraulic pumps, and reamers. Reassembles and tests unit to determine adequacy of repair and for satisfactory operational performance.

Must be skilled in the use of mechanic's hand and bench tools and be able to operate engine lathes used to ream bushings and reface needle valves.

SUGGESTED SUBSTITUTES

013 Diesel Mechanic

905 Mechanic, Engine, Wheel Vehicle (Gasoline)

909 Mechanic, Engine, Track Vehicle

AMPHIBIAN TRANSPORTATION NONCOMMISSIONED OFFICER (927)

Amphibian Truck Noncommissioned Officer

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Supervises the activities of amphibian truck personnel engaged in transporting matériel and troops from ships to inland points in one continuous operation. Assigns jobs to drivers and mechanics, establishes work schedules, and determines priority of work. Supervises requisitioning and issuance of supplies, and the loading and disposition of cargo and personnel to inland distribution points and return to ship or station. Assists in planning movement of amphibian trucks in land and water operations. Supervises inspection and repair of amphibian truck hull, motor, and auxiliary equipment.

Must know amphibian vehicle operation, maintenance, repair, and tactical operations in connection with amphibian trucks.

Must be qualified amphibian truck driver.

SUGGESTED SUBSTITUTES

797 Amphibian Truck Mechanic (DUKW)

934 Amphibian Truck Driver

TRUCK DRIVER, HEAVY (931)

Driver, Half-Track

Dispatcher-Driver

Heavy Automotive Equipment Operator (AAF)

Tractor Driver

Truckmaster

Drives heavy duty truck (over 2½-ton capacity) or half-track to transport or tow personnel, matériel, or equipment.

Checks operation of lights, brakes, steering mechanism, and other operating parts. Services, cleans, and lubricates vehicle. Makes minor road repairs to vehicle in emergency. Camouflages vehicle. Accomplishes standard vehicle report forms.

Tools used include pliers, wrenches, hammer, jack, grease gun, and oiling equipment.

Should know general principles of the internal combustion engine, power transmission, and electrical system in an automotive vehicle. Must know civilian and military traffic regulations, convoy rules, and road discipline. Must know how to read maps and overlays, and be able to drive at night and during blackout over all types of terrain. Must possess Army motor vehicle operators' permit.

SUGGESTED SUBSTITUTE

932 Special Vehicle Operator

SPECIAL VEHICLE OPERATOR (932)

Operates large semitrailers, trailer-trucks, wrecking equipment, refueling units, Diesel powered towing equipment, and other special purpose vehicles used in connection with construction, salvage, or transportation activities, and operates special equipment with which vehicle is outfitted.

Checks operation of lights, brakes, steering mechanism, and other working parts. Services, cleans, and lubricates vehicle. Makes minor road repairs to vehicle in emergency. Accomplishes standard vehicle report forms. Camouflages vehicle. Operates hoists, fuel pumping, or other special equipment mounted on vehicle.

Should know general principles of the internal combustion engine, power transmission, and electrical systems of vehicle. Must know civilian and military traffic regulations, convoy rules, and road discipline. Must know how to read maps and overlays and be able to drive at night and during blackout over all types of terrain. Must possess Army motor vehicle operators' permit.

SUGGESTED SUBSTITUTE

931 Truck Driver, Heavy

INSTRUMENT LANDING EQUIPMENT MECHANIC (933)

Sets up, operates, and maintains mobile instrument landing equipment consisting of radio transmitters, which send out radio beam signals to be used by aircraft landing by instrument.

Locates transmitter trucks at proper position in relation to runway, sets up antennae, and connects power units. Tunes transmitters to proper frequencies and checks their operation. Inspects transmitters, isolates and analyzes defects, tightens loose connections, and makes other minor repairs to equipment.

Tools and equipment used include tube tester, ammeter, ohmmeter, voltmeter, screw drivers, wrenches, and pliers.

SUGGESTED SUBSTITUTES

647 Radio Repairman, Aircraft Equipment

648 Radio Repairman

649 Radio Repairman, Fixed Station

759 Radio Operator, CNS

AMPHIBIAN TRUCK DRIVER (934)

As a member of an amphibian truck crew, operates and maintains an amphibian truck used in transporting matériel and troops from ships to inland points in one continuous operation.

Prepares truck for debarkation, checking engine, body, equipment, and bilge plugs. Maneuvers truck in water to prevent capsizing, crashing into other harbor craft and ships, and grounding on sand bars or reefs. Controls loading of truck to prevent damage to cargo and truck by having cargo properly stowed, braced, and lashed. In rough weather, rigs cargo tarpaulin, clamps hatch covers, sets windshield surf guard, and rigs cab tarpaulin. Engages and disengages propeller and wheels, using

SPECIFICATIONS FOR MILITARY OCCUPATIONAL SPECIALTIES

transmission, transfer case, and front axle drive depending upon operating conditions. Deflates and inflates tires according to type of ground over which truck must travel. Makes preoperation check and postoperation servicing. Checks gas, oil, tires, water, grease cups and bilge plugs, lubricates and oils parts, cleans truck, checks for damage to body and equipment, and paints rust spots. Maintains log of operation, recording compass course, distances, buoys, vessels passed, currents, and landing conditions. Camouflages truck on land to prevent detection by enemy land, air, or naval forces.

May evacuate casualties from inland points to ships.

Unloads cargo by hand, wooden chute, ramp, A-frame, and winch. Uses compass, marine charts, semaphore, lamps, and winch.

Must know navigation rules, harbor markers, cargo stowage, International Morse Code, rigging, knots, camouflage principles, and radio code.

SUGGESTED SUBSTITUTES

823 Coxswain, Harbor Craft

838 Seaman, Landing Craft

AAF GUNNERY INSTRUCTOR (938)

Instructs military personnel in all phases of flexible gunnery.

Conducts classes utilizing teaching aids such as charts, models, film strips, and motion pictures. Interprets results of examinations. Administers phase checks. Conducts range instruction with special reference to the observation of safety precautions. Organizes students for training in air firing.

Must meet the minimum qualifications required of an aerial gunner with exception of qualification for flying duty which is desirable but not required. Must maintain proficiency in the knowledge and skills required of an aerial gunner and have acquired a broad background of experience in flexible gunnery.

AERIAL PHOTOGRAPHER-GUNNER (939)

Operates photographic equipment from aircraft in flight to determine the effect of bombing missions, nature and location of enemy installations, troop movements or disposition, or compilation of maps and photographic mosaics. Fires aerial guns in combat.

Takes either still or motion pictures from the air. Operates, assists in installing, and performs first and second echelon maintenance of one or more types of aerial cameras. Performs first echelon maintenance on one or more types of aerial guns and mounts. Occasionally assists in laboratory processing of motion and still photographic films and prints.

Must be able to read maps and follow flight lines in photographic missions.

AERIAL PHOTOGRAPHER (940)

Operates photograph equipment from aircraft for the purpose of determining the effect of bombing missions, nature and location of enemy installations, troop movements or disposition, or compilation of maps and photographic mosaics.

Takes either still or motion pictures from the air. Operates and assists in installing and maintaining one or more types of aerial cameras. Occasionally assists in the laboratory processing of motion and still photographs.

Must be able to read maps and follow flight lines in photographic missions.

SUGGESTED SUBSTITUTES

152 Photographer

945 Photographic Laboratory Technician

CAMERA TECHNICIAN (941)

Adjusts, maintains, and repairs all aerial and ground, still, and motion picture cameras used by Army Air Forces.

Makes periodic inspections of cameras and laboratory equipment, and repairs defects using precision hand tools. Selects equipment to be used on photographic missions, and checks for proper functioning of such mechanisms as film timing and automatic and semiautomatic features of cameras. Prepares reports on installation of cameras in airplanes. May repair gun cameras.

RADIOSONDE OPERATOR (942)

Performs all technical work in making radiosonde observations at radiosonde sections. Makes soundings with a radiosonde. Operates ground set and obtains proper recorder record. Prepares adiabatic charts. Evaluates radiosonde observations. Prepares isentropic isobar data. Encodes observations for transmission. Performs first and second echelon maintenance on radiosonde ground receiving set and performs maintenance on radiosonde transmitters.

Must be capable of operating radiosonde equipment and be well acquainted with forms used in recording radiosonde observations. Must be proficient in the skills required of a weather observer.

PHOTOGRAPHIC LABORATORY TECHNICIAN (945)

Aerial Photographic Laboratory Technician
Laboratory Technician, Developer, Still
Laboratory Technician, General
Lay-out Man, Photographic
Photographer, Developer

MILITARY OCCUPATIONAL CLASSIFICATION OF ENLISTED PERSONNEL

Photographer, Printer
Photographer, Retouching Artist
Photographic Chief
Photographic Darkroom Man
Photographic Laboratory Chief
Photographic Laboratory Supervisor

Performs a variety of tasks in connection with photographic processing in a military photographic laboratory.

Prepares and mixes photographic solutions, following prescribed formula. Develops film by immersing them for prescribed periods at specified temperatures in prepared chemical solutions. Makes contact and projection prints by means of printing machine, placing sensitized paper over negative and exposing the prints to electric light, removes prints from machine, develops them in chemical solutions, and dries them. In Army Air Forces, assembles uncontrolled mosaic strips, makes reproduction photographs by use of standard copy cameras or other ground cameras and equipment.

May spot or retouch photographic prints and negatives, using retouching fluid, knives, and pencils.

At supervisory level, is responsible for control and coordination of laboratory personnel and equipment.

Must be thoroughly familiar with photographic laboratory equipment such as film developers, film driers, and print driers. Must be familiar with various types of sensitized materials, print washes, and other chemicals used in connection with photographic work.

SUGGESTED SUBSTITUTES

107 Photolithographer
152 Photographer

SEARCHLIGHT NCO (946)

Directs and supervises crew or crews operating searchlights utilized in detection and illumination of enemy aircraft or naval craft.

Trains various crewmen in operation, maintenance, and tactical use of searchlight, control station, and power generating unit. Is responsible for efficient operation of crew during combat. Prior to going into action, checks all equipment to make certain it is in good working order. Orients or supervises orientation of searchlight, control station, and radar by comparing simultaneous readings in azimuth and elevation. Issues orders to engage target, and orders adjustments in focus or tracking when needed. May designate new target. Directs crew going out of action and supervises maintenance of equipment.

May direct various crew chiefs by telephone,

designating targets to be tracked, and relaying information on approach of potential targets.

Must have thorough knowledge of aircraft tactics and identification.

SUGGESTED SUBSTITUTE

763 Searchlight Crewman

RADAR MECHANIC, GROUND LORAN (948)

Performs first and second echelon repair and maintenance on all types of ground loran equipment.

Tests equipment for faulty operation. Repairs or replaces worn, broken, or otherwise defective parts. Cleans and adjusts equipment to maintain efficient operation.

AMMUNITION RENOVATOR (949)

Ammunition Inspector

Field Inspector

Unpacks, disassembles, inspects, repairs, and reassembles various types of ammunition. Performs renovation of complete rounds or their components as is necessary, operating assembly and disassembly machines and other equipment, weighing powder, and refuzing projectiles. Cleans and resizes cartridge cases to meet required dimensions.

Inspects fixed and separate loading ammunition in storage, during renovation, or prior to shipment, disassembling and visually examining to detect evidence of deterioration, and determining need for destruction or renovation. Destroys ammunition and components by approved methods. May supervise and coordinate work of a group of renovators and munitions workers. May recommend changes in methods and working procedures.

Must know Ordnance and other safety regulations governing storage and handling of ammunition.

SUGGESTED SUBSTITUTES

505 Ammunition Noncommissioned Officer
901 Munitions Worker

WIRE REPAIRMAN, VHF (950)

Supervises the installation and maintenance of, and makes repairs to, the lines and wire communication equipment associated with VHF control net systems.

Directs installation of lines and terminal equipment according to diagram. Inspects, cleans, adjusts, installs, and replaces parts in switchboards, switching, and communication devices used in connection with the wire communication system. Uses electrician's hand tools.

SUGGESTED SUBSTITUTES

097 Installer-Repairman, Telephone and Telegraph

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- 232 Switchboard Installer-Repairman, Manual
- 261 Wire Chief, Telephone and Telegraph
- 384 Installer, Toll Telephone and Telegraph

RADIO REPAIRMAN, VHF (951)

Installs, inspects, and repairs transmitting, receiving, direction-finding, and communication radio equipment used in VHF (control net) systems, either fixed, semifixed, or mobile.

Tests equipment using such instruments as voltmeter, ohmmeter, tube testers, and oscilloscope.* Isolates and corrects defects either by repairing units including resistors, condensers, and hook-up wire, or by replacing defective parts with new ones. Improvises or makes substitutions for defective parts when replacements are not available.

Must have general knowledge of the theory of operation of radio transmitters, receivers, and related equipment including antennas, control boxes, and power supply.

SUGGESTED SUBSTITUTES

- 647 Radio Repairman, Aircraft Equipment
- 648 Radio Repairman
- 649 Radio Repairman, Fixed Station
- 759 Radio Operator, CNS

RADAR REPAIRMAN, GUNLAYING EQUIPMENT (DESIGNATED SET) (952)

Performs third and fourth echelon maintenance and repairs on designated mobile or fixed ground radar equipment. Disassembles, tunes, aligns, and repairs equipment, diagnosing malfunctioning of parts and effecting necessary repairs and replacements, using precision electrical and electronic devices and instruments and small hand and light machine tools.

May be required to instruct personnel in or inspect lower echelon activities with respect to repair and maintenance matters.

Must be able to make any repair, adjustment, or replacement necessary to place the equipment (and usual accessories) in excellent operating condition, including overhaul or reclamation of equipment and parts.

SUGGESTED SUBSTITUTE

- 952 Radar Repairman, Gun-laying Equipment (Other Designated Sets)

RADAR REPAIRMAN, REPORTING EQUIPMENT (DESIGNATED SET) (953)

Performs third and fourth echelon maintenance and repairs on designated mobile or fixed ground radar equipment. Disassembles, tunes, aligns and repairs equipment, diagnosing malfunctioning of parts, and effecting necessary repairs and replace-

ments, using precision electrical and electronic devices and instruments and small hand and light machine tools. May be required to instruct personnel in or inspect lower echelon activities with respect to repair and maintenance matters.

Must be able to make any repair, adjustment, or replacement necessary to place the equipment (and usual accessories) in excellent operating condition, including overhaul or reclamation of equipment and parts.

SUGGESTED SUBSTITUTE

- 953 Radar Repairman, Reporting Equipment (Other Designated Sets)

RADAR REPAIRMAN, AIRBORNE EQUIPMENT (DESIGNATED SET) (955)

Performs third and fourth echelon maintenance and repairs on designated airborne radar equipment. Disassembles, tunes, aligns, and repairs equipment, diagnosing malfunctioning of parts and effecting necessary repairs and replacements, using precision electrical and electronic devices and instruments and small hand and light machine tools.

May be required to instruct personnel in or inspect lower echelon activities with respect to repair and maintenance matters.

Must be able to make any repair, adjustment, or replacement necessary to place the equipment (and usual accessories) in excellent operating condition, including overhaul or reclamation of equipment and parts.

AIRPLANE CARBURETOR REPAIRMAN (956)

Makes flaw test and performs third and fourth echelon maintenance of airplane carburetors.

Disassembles, inspects, repairs, replaces parts, reassembles, and adjusts all float and pressure airplane carburetor units such as fuel control, water injection systems, air flow, automatic mixture control, and diaphragm acceleration pumps.

AIRPLANE ELECTRICAL INSTRUMENT MECHANIC (957)

Inspects, disassembles, repairs, cleans, assembles, and calibrates electrically operated aircraft instruments and control devices such as voltmeters, ammeters, synchrosopes, thermometers, fuel mixture indicators, ohmmeters and position indicators.

Examines defective instruments by checking physical condition of cases, cover glasses, pointers, markings, and other external features. Installs instrument on test board to observe its operation, analyze malfunctioning, and determines necessary repairs. Disassembles instrument cases and repairs or replaces worn or damaged parts. Reassembles

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instruments and calibrates it by taking check readings. Reports instruments for salvage if damaged beyond repair.

Uses such tools and equipment as ammeter, voltmeter, ohmmeter, electrical and hydraulic test stands, electrician's hand tools and jeweler's tools.

AIRPLANE AND ENGINE ELECTRICAL ACCESSORIES REPAIRMAN (958)

Performs third and fourth echelon overhaul and repair in connection with overhaul of airplane and engine electrical accessories.

Disassembles, cleans, inspects, replaces parts, reassembles, tests and adjusts switch and control panel, warning systems, generators, starters, solenoids, magnetos, manifold, batteries, spark plugs, voltage regulators, and other airplane electrical accessories.

AIRPLANE MECHANICAL INSTRUMENT REPAIRMAN (959)

Performs third and fourth echelon maintenance in connection with overhaul of airplane mechanical instruments.

Disassembles, cleans, inspects, repairs, replaces parts, assembles, adjusts and calibrates mechanically operated aircraft instruments and control devices including compasses, altimeters, tachometers, oil pressure gauges, fuel pressure gauges, capillary thermometers, suction gauges, climb indicators, manifold pressure gauges, and airspeed indicators.

REMOTE CONTROL TURRET MECHANIC (960)

Performs first and second echelon maintenance of remote control turret systems. Analyzes malfunctioning of remote control turret systems. Isolates malfunction to the elements or main assembly in complete system. Isolates within assembly to the individual part. Adjusts, repairs, or replaces faulty part of assembly after location. Tests for proper functioning. Uses analyzing tools, meters, instruments, and gauges, for location of fault.

Replaces assemblies, turret parts, brushes, brush riggings, contractors, relays, switches, selsyns, sights and sight lamps, and all such parts which are accessible and provided as squadron spares for first and second echelons of maintenance. Cleans, oils, greases, adjusts, inspects, and tests all elements of system. Levels, harmonizes, zeros, and aligns system and guns. Tests computer settings and function. Tests system. Checks, inspects, and tests guns, power supply, control and safety devices, and other parts.

AIRPLANE GYRO INSTRUMENT REPAIRMAN (961)

Performs third and fourth echelon overhaul and

repairs of gyro instruments which involve opening sealed instrument cases.

Disassembles, cleans, inspects, repairs, and replaces parts, assembles, adjusts, and calibrates gyroscopic instruments and control devices such as driftmeters, bank and turn indicators, directional gyro indicators, gyro horizons, gyro flux gate compasses, and automatic pilot gyroscopic assemblies. Tests instrument operations with field test sets.

OPTICAL INSTRUMENT REPAIRMAN (962)

Performs third and fourth echelon overhaul and repair of optical instruments.

Disassembles, cleans, inspects, repairs, and replaces parts, assembles, adjusts, and calibrates optical instruments including driftmeters, octants, sextants, and polaris.

AIRPLANE SUPERCHARGER REPAIRMAN (964)

Disassembles, inspects, cleans, replaces worn or defective parts, and reassembles integral supercharger units and turbo superchargers.

Balances complete rotor assemblies. Examines turbine buckets for metal fatigue and stretch, replacing defective buckets. Replaces broken steels and bores bushings on blower sections. Overhauls rear section of engines including driveshafts and gears. Installs driveshafts, gears and oil pumps. Tests operation of superchargers after overhaul.

Must be able to repair gear, clutch, and regulator sections incorporating two stage superchargers.

SUGGESTED SUBSTITUTES

684 Airplane Power Plant Mechanic

747 Airplane and Engine Mechanic

MECHANIC, AUTOMOTIVE, WHEEL VEHICLE (THIRD ECHELON) (965)

Automotive Assembler

Automotive Repairman (AAF)

Performs medium (third echelon) field maintenance on all types of wheel and half-track vehicles.

Makes unit replacements of major components of vehicles. Overhauls accessory unit assemblies and subassemblies. Conducts recovery, evacuation, tune-up adjustment, and trouble diagnosis. Performs organizational maintenance on organic vehicle of maintenance units.

Uses automobile mechanic's tools.

SUGGESTED SUBSTITUTE

966 Mechanic, Automotive, Track Vehicle (Third Echelon)

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MECHANIC, AUTOMOTIVE, TRACK VEHICLE (THIRD ECHELON) (966)

Performs medium (third echelon) field maintenance on all types of tanks, assault guns, and other full-track-laying vehicles.

Makes unit replacements of major components of vehicles. Overhauls accessory unit assemblies and subassemblies. Conducts recovery, evacuation, tune-up, adjustment, and trouble diagnosis. Performs organizational maintenance on organic vehicles of maintenance.

Uses automobile mechanic's tools.

SUGGESTED SUBSTITUTE

965 Mechanic, Automotive, Wheel Vehicle (Third Echelon)

AIR TRANSPORTATION TECHNICIAN (967)

Supervises the loading, unloading, balancing, tying down, and stowing of cargo in aircraft, and the operation of loading equipment.

Supervises execution of manifests, airways bills, and other forms required in connection with the movement of air freight and passengers.

May assist officer-in-charge of priorities, air freight terminal, or weights and balances in air transportation operation.

Must know limitations of load capacity for all types of cargo aircraft.

MINE DETECTOR OPERATOR (968)

Operates mine detecting equipment to determine the location of enemy planted antipersonnel and antitank mines.

Conducts searches of buildings, roads, and field, vacated by the enemy, and marks with flags the spot or spots wherein mines are detected.

Must be able to detect carefully concealed booby traps. Must be familiar with the safety precautions to be taken in the handling and application of explosives.

Should have good hearing in order to be able to distinguish between the various sounds emitted by the mine detecting apparatus as it approaches or passes over mines.

SUGGESTED SUBSTITUTE

729 Pioneer

LINK CELESTIAL NAVIGATION TRAINER MECHANIC (969)

Inspects, adjusts, replaces parts, and makes minor repairs, on link celestial navigation trainer equipment.

Repairs, replaces parts, and adjusts mechanical, vacuum, electrical, and radio systems of trainer.

May assemble and install trainer equipment under supervision of an engineer.

Uses mechanic's and electrician's hand tools, and electrical testing devices including ohmmeter, ammeters, and voltmeter.

LINK CELESTIAL NAVIGATION TRAINER OPERATOR (970)

Operates base controls of link celestial navigation training equipment used to train flying personnel in celestial navigation.

Follows track of flight-recorder across chart and coordinates movement of celestial dome with latitude and longitude of simulated aircraft. Transmits signals to fuselage of trainer to simulate transmissions from two radio stations, ranges, and beacons. Operates equipment which projects image of terrain on terrain screen which is viewed by personnel of the training flight. Controls appearance and motion of stars and clouds which are seen in dome of trainer. Maintains interphone communication with instructor in fuselage. Performs minor repairs and adjustments on trainer.

Must be familiar with dead reckoning, radio aids, and the elements of celestial navigation.

SUGGESTED SUBSTITUTES

658 Link Trainer Instructor

969 Link Celestial Navigation Trainer Mechanic

CHIEF ARTILLERY MECHANIC (973)

Supervises, instructs, and coordinates enlisted mechanics in repairing, overhauling, rebuilding, and testing all artillery matériel, electrical and nonelectrical fire control instruments, shoulder weapons, machine guns and mortars in a fixed or mobile military shop.

Inspects equipment to determine extent and type of repair required. Assigns work to units or to individuals. Inspects and tests completed work for serviceability. Personally performs more difficult and complex repair work using mechanic's hand tools. Instructs personnel in use and maintenance of shop equipment and in technical aspects of repair. Supervises maintenance of shop records and requisitions supplies, tools, and equipment.

Must be able to read blueprints and lay out work for specifications, rough notes, and sketches.

SUGGESTED SUBSTITUTE

913 Artillery Mechanic, Light

914 Artillery Mechanic, Heavy

915 Artillery Mechanic, Heavy Antiaircraft

978 Artillery Mechanic, Light Antiaircraft

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RADAR REPAIRMAN, AN/TPT (DESIGNATED MODEL) (974)

Performs repairs and adjustments on radar AN/TPT or similar equipment of a designated model. Supervises the assembly of antenna and antenna-tuning equipment and performs initial tuning. Aligns receivers and search equipment.

Is adept in the use of precision, electrical and electronic instruments and devices; various types of small hand and light machine tools.

Must be able to perform any third echelon repair, adjustment, or replacement necessary to place the equipment (and usual accessories) in excellent operating condition, including overhaul or reclamation of equipment and parts.

SUGGESTED SUBSTITUTE

955 Radar Repairman
Airborne Equipment
(Designated Set)

ARTILLERY MECHANIC, LIGHT ANTI-AIRCRAFT (978)

Inspects, tests, and performs major repairs, unit replacements of complete rebuilding of anti-aircraft artillery of 40-mm or smaller caliber in a mobile or fixed artillery repair shop.

Determines causes of malfunctioning of equipment by visual inspection and by use of such testing devices as vernier calipers, pressure gauges, and spirit levels.

Using such hand and bench tools and equipment as hammers, screw drivers, various size socket and straight wrenches, hand power drill, block-and-tackle, and hoists, repairs and replaces defective assemblies of breechblock and firing mechanism, recoil and counter-recoil systems, shock absorbing devices, and traversing and elevating mechanisms.

SUGGESTED SUBSTITUTES

511 Armorer
802 Artillery Mechanic, Minor Maintenance
903 Small-Arms Weapons Mechanic
913 Artillery Mechanic, Light

CHEMICAL WARFARE MAN, GENERAL (979)

Chemical Warfare Basic

This classification is used to designate a chemical warfare enlisted man who has received the minimum essentials of basic military training, and who has been trained in the functioning of the 4.2-inch mortar and of the mortar squad, and in first and second echelon care and maintenance of chemical warfare equipment. Assists chemical warfare technicians in the performance of their duties, such as decontamination and impregnation of clothing, han-

dling of toxic gases, and operation of smoke generators.

Assists in the salvage and classification of chemical warfare equipment using such tools as are required, such as hack saws, hammers, chisels, wrenches, wrecking bars, and acetylene burners.

(Enlisted men classified under this SSN will be constantly observed and tested to determine their qualifications for classification and assignment under an appropriate MOS.)

RADIO MECHANIC, PQ TARGET AIRPLANE (993)

Installs, tests, and maintains all radio equipment in airplanes, control ships, and control trucks equipped with PQ (pilot carrying) type remote control equipment.

Makes special radio equipment installations in PQ type targets, and checks and adjusts radio equipment, including tubes and control boxes, prior to all missions. Tests equipment, using such instruments as voltmeter, ohmmeter, tube testers, and oscilloscope. Isolates and corrects defects either by repairing or replacing units such as resistors, condensers, relays, stepper switches, and wiring, using small machine and hand tools. Accompanies control ship on missions to insure proper functioning of control transmitters.

Should have thorough working knowledge of radio equipment used in PQ type radio controlled target activities.

SERVO MECHANIC, PQ TARGET AIRPLANE (994)

Installs, maintains, and repairs all servo equipment in PQ (pilot carrying) type radio controlled target airplanes, and repairs mechanical parts of airplane.

Assists pilot in initial servo adjustment in target, replaces faulty gyros and overhauls and troubleshoots all servo equipment including linkages. Services and maintains automatic pilot equipment. Replaces torn fabric on plane surface, using canvas and fabric dope. Using mechanic's hand tools, makes minor repairs to, or replaces parts of, fuselage, landing gear, or other plane accessories. Diagnoses and corrects engine or other operating parts.

- Should be familiar with airplane and engine and automatic pilot equipment maintenance. Completion of radio control target training essential.

OBSERVATION DRAFTSMAN (1076)

Operates a mechanical or improvised drafting board used in field artillery flash or sound plotting.

Lays out grid on plotting board according to scale and plots meter data such as the position of sound microphones or flash observation posts. Plots

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flash or sound locations as they are relayed from the flash switchboard operator or as they are read from the sound film.

Uses ordinary drafting tools such as compass, protractor, dividers, triangles, plotting fan, scales, and slide rule.

Must be able to read maps and aerial photographs. Must be able to read oscillograph films. Should be able to perform field survey operations and compute survey problems such as azimuth and distance.

SUGGESTED SUBSTITUTE

230 Surveyor, Topographic

GUN CREWMAN, PACK ARTILLERY (1531)

Ammunition Handler

Ammunition Noncommissioned Officer

Cannoneer

Gunner

As a member of a 75-mm pack artillery gun crew, assists in disassembling, moving, assembling, emplacing, firing, and withdrawing piece in combat operation over terrain where other types of field artillery cannot maneuver.

Performs one or more of the following operations during the firing mission: Sets horizontal angle from established position by means of panoramic sight, and manipulates gun traverse wheel to place the bore of the gun on target line. Makes additional changes in angular deflection as directed to achieve fire precision or to transfer fire to other targets. Sets target range on range drums and target angle of site on angle-of-site scale. Opens and closes breech. Carries, inspects, cleans, and passes ammunition. Attaches fuze to projectile, using fuze wrench, and sets fuze for quick or delayed action, using fuze setter. Loads piece by hand, pushing round into breech until it is firmly seated. Fires piece by pulling hand lanyard. Removes unfired rounds or cartridge cases which cannot be ejected by extractor, using rammer and rammer staff. Inspects bore and swabs with water. Cleans breech. Prepares piece for transportation by disassembling, packing, and slinging on mules equipped with specially designed pack saddles. Assists in such maintenance operations as cleaning, oiling, and rust-proofing of vital parts of gun. Assists in care of animals and maintenance of equipment.

At supervisory level is responsible for control coordination, and tactical employment of pack artillery and crew members.

Must be able to pack the necessary equipment, cargo, and matériel on pack animals using a variety of knots such as single diamond, double diamond, and squaw hitch, to secure the load. Must be above

average in strength and at least 5 feet 10 inches in height.

SUGGESTED SUBSTITUTES

505 Ammunition Noncommissioned Officer

608 Gun Crewman, Coast Artillery

712 Packer, Animal

844 Gun Crewman, Light Artillery

845 Gun Crewman, Heavy Artillery

901 Munitions Worker

HEAVY MORTAR CREWMAN (1607)

Ammunition Bearer

Instrument Noncommissioned Officer

Mortar Assistant

Mortar Gunner

As member of 81-mm or 4.2-inch mortar crew, sets up, aims, and fires weapon from carrier or ground mount, to place explosive, toxic gas, shells, or smoke on enemy positions.

Emplaces mortar and sights in on aiming stake. Adjusts mortar for elevation and deflection. Uses firing tables to determine necessary charge and adjusts charge of mortar shell by removing necessary number of increments to give correct auxiliary propelling force. Fires weapon by dropping shell into mortar to strike firing pin. Drives vehicle.

At supervisory level is responsible for control, coordination, and tactical employment of mortar crews.

Must be able to estimate range and deflection rapidly and accurately.

SUGGESTED SUBSTITUTE

607 Light Mortar Crewman

RANGE SECTION OPERATOR, ANTI-AIRCRAFT (1645)

Observer, Director

Director Operator

As a member of a range section, performs one or more duties incident to operation and maintenance of equipment and instruments used in connection with electrical or mechanical collection and compilation of firing data for an anti-aircraft gun or battery of guns.

Assists in unloading equipment, including computer, tracker, power unit, tripod, altitude converter, and cable system. Sets up and levels equipment at designated locations and connects power cables. Operates as an azimuth or elevation tracker on director, following target with telescope by manipulating handwheels in such a way as to obtain a smooth tracking rate. Observes bursts of shells with reference to target, adjusting director to improve lateral or vertical accuracy of fire. Observes target through open sight on director tracker,

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throwing in azimuth sleeve clutch to turn tracker so that telescopes will be directed toward the target. Repeats operation with every change of target. As an altitude or range setter on converter changing slant range altitude, moves dial to match index controlled by height finder or position finder. Operates and observes target rate indicator at computer, setting dials as needed. Sets corrections on computer to compensate for known errors in transmitted data. Matches pointers on director, setting range or altitude, or correcting fuze data. Spots and tracks targets and reports back readings. Orients gun, height finder, and director. Observes shell bursts during firing and reports range corrections by field telephone. Starts motor, regulates speed of engine, and checks operation gauges. Services motor and makes minor repairs.

May set up, orient, and level B/C telescope 1 to 3 miles distance from gun position. May operate portable power generator furnishing power for range section. May drive truck.

RADIO REPAIRMAN, AN/MRQ (DESIGNATED MODEL) (1648)

Performs repairs and adjustments on a designated model of radio AN/MRQ or similar equipment that are beyond the capabilities of the radio repairman (SSN 648). Supervises the assembly of antenna and antenna tuning equipment. Aligns receivers including amplitude and frequency modulated equipment.

Is adept in the use of precision electrical and electronic instruments and devices; various types of small hand and light machine tools.

Must be able to make any repair, adjustment, or replacement necessary to place the equipment (and usual accessories) in excellent operating condition, including overhaul or reclamation of equipment and parts.

SUGGESTED SUBSTITUTE

648 Radio Repairman

AIRPLANE POWER PLANT MECHANIC-GUNNER (1684)

In connection with the inspection and repair of airplanes, observes operation of airplane power plants and makes necessary repairs within limitations of available tools and equipment. Fires aerial machine guns on combat missions.

Diagnoses power plant malfunctioning and operating difficulties which cannot be corrected by organization airplane and engine mechanics. Adjusts and repairs such features of power plant as carburetors, superchargers, injectors, fuel and oil pumps, and ignition units. Makes unit replacements of defective power plant parts.

Uses such tools as wrenches, screw drivers, pliers, and portable testing equipment.

Must be familiar with the principles of operation and methods of repairing airplane power plant equipment.

SUGGESTED SUBSTITUTES

684 Airplane Power Plant Mechanic

747 Airplane and Engine Mechanic

AIRPLANE ELECTRICAL MECHANIC-GUNNER (1685)

Inspects and makes repairs to aircraft electrical equipment excluding radio transmitters and receivers and aircraft instruments. Fires aerial machine guns on combat missions.

Examines electric wiring, auxiliary electric motors, ignition systems, and lighting units for proper functioning. Uses a combination electrical continuity tester or ohmmeter, ammeter, and voltmeter to locate short circuits and to test currents and resistances. Traces circuits with aid of blueprints. Tightens and solders loose electrical connections. Cleans, repairs, and replaces electric motors, ignition units, recognition and landing lighting units, relays, junction boxes, and other related equipment.

Uses such tools as screw drivers; wrenches; wire cutters; file; and pliers.

Must be familiar with aircraft electrical systems and with basic electrical theory. Must be able to read blueprints.

SUGGESTED SUBSTITUTES

078 Electrician

611 Aerial Gunner

747 Airplane and Engine Mechanic

685 Airplane Electrical Mechanic

LIGHT TANK CREWMAN (1736)

Ammunition Handler	Loader
Assault Gun Crewman	Radio Tender
Bow Gunner	Tank Commander
Cannoneer	Tank Driver
Gunner	Tank Gunner

As member of crew of a light tank or light tank-mounted assault gun used in the attack of enemy positions, performs one or more of the following duties: Drives the vehicle to secure maximum fire effect without undue exposure to enemy fire. Operates radio to maintain communication with other elements. Fires the weapons of the vehicle, including cannon and machine guns, to destroy enemy personnel, lines of communication, vehicles, pill boxes, and other targets, and to protect the vehicle against attack. Inspects and checks engines, oil levels, innerphone headset communication, radio, vehicle operating equipment, turret mechanism,

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tracks, bogie wheels, ammunition, and weapons. Cleans and services .30- and .50-caliber machine guns and cannon, and bore-sights cannon.

At supervisory level, is responsible for control, coordination, and tactical employment of tank and crew members.

Must have sufficient knowledge of the tactical employment of light armored vehicles to be able to anticipate commands, take advantage of cover, and maneuver to obtain targets and secure good observation positions in reconnaissance. Must be skilled in entering and leaving vehicle under combat conditions and capable of fighting with hand weapons when dismounted. Must be familiar with the principles of armored reconnaissance. Must be able to employ the gunnery techniques of direct and indirect fire on moving and stationary targets.

SUGGESTED SUBSTITUTES

- 610 Antitank Gun Crewman
- 660 Tank Mechanic, Minor Maintenance
- 733 Reconnaissance Car Crewman
- 844 Gun Crewman, Light Artillery
- 2736 Medium Tank Crewman

RADIO OPERATOR, AN/MRQ (DESIGNATED MODEL) (1766)

Operates a designated model of radio AN/MRQ or similar transmitting and receiving equipment. Operates equipment by manipulating tuning or operating controls in coordination with signals or instructions received from a control station. Assists in the installation of equipment, antenna, power units, transmitters, receivers, and telephone lines. Receives International Morse Code at a speed sufficient to differentiate between friendly and enemy signals.

Uses small hand tools in performing maintenance and repair work which consists of inspecting, dusting, and oiling equipment; making simple repairs, adjustments, and replacements of parts such as fuses, filters, pilot lights, batteries, and tubes.

Must be a qualified high speed manual radio operator (SSN 766).

SUGGESTED SUBSTITUTE

- 766 Radio Operator, High Speed, Manual

LIGHT WEAPONS NCO (1812)

Supervises activities of a light weapons unit, comprising light (30-caliber) machine guns and light (60-mm) mortars, to provide fire power in support of other tactical units in attack and defense.

Selects positions for weapons, taking advantage of cover and concealment. Furnishes firing data

such as range and deflection. Deploys unit as the tactical situation demands.

Must be familiar with firing problems in difficult terrain. Must be capable of rapidly and accurately estimating range and angle of fire. Must be familiar with use of compass, map reading, and range computation from firing table.

SUGGESTED SUBSTITUTES

- 604 Light Machine Gunner
- 607 Light Mortar Crewman

GYROSTABILIZER MECHANIC (1907)

Maintains, adjusts, and makes major repairs on gyrostabilizers used in various model tanks and other combat vehicles.

Determines causes of malfunctioning by visual examination or test operation. Disassembles unit and replaces or repairs worn or broken parts. Reassembles, lubricates, and tests unit to assure satisfactory operating condition.

Must have knowledge of the various kinds of mountings and balancing of guns. Must understand the operation of Homelite generators mounted in tanks employing gyrostabilizers.

SUGGESTED SUBSTITUTE

- 907 Mechanic, Turret

ANTI-AIRCRAFT ARTILLERY GUN CREWMAN (2601)

- | | |
|-------------------------------|-------------------------------------|
| Ammunition Handler | Cannoneer |
| Antiaircraft Artillery | Fuze Setter |
| Non-commissioned Officer, Gun | Gunner, Antiaircraft Machine Gunner |

As member of gun crew performs one or more of the following tasks incident to firing and maintenance of a fixed or mobile 90-mm, 120-mm, or similar size gun used for protection of combat elements or strategic areas from enemy aircraft, mechanized forces, or small naval vessel.

Examines gun for proper mechanical functioning. Unloads projectiles from trucks, inspects projectiles and fuzes for defects, brings up ammunition from prime mover or ammunition dump to rear of emplacement, passes shells to loader, inserts shells in fuze cutter, loads into breech, or removes empty shells from gun position. Operates fuze setter, turning crank on setter and automatically adjusting fuze ring on shell to desired setting, or turns handwheel keeping pointer on fuze setting dial matches with pointer electrically controlled from fire control director. Rams home shell in breech, fires pieces and watches for misfires. Turns handwheels electrically moving gun in azimuth and elevation, keeping pointers on azimuth and elevation dials aligned with pointers electrically controlled

MILITARY OCCUPATIONAL CLASSIFICATION OF ENLISTED PERSONNEL

from director, thus maintaining synchronization between gun and director. When firing with direct sights tracks target and operates either azimuth or elevation handwheel mechanically operating gun. Performs maintenance tasks on piece including greasing and oiling, and cleaning breech and bore.

In a mobile crew, assists in unloading, unlimbering, emplacing, and preparing gun for action by installing and unfolding outriggers, leveling jacks, and inspecting breech and working mechanisms, and in restoring piece to traveling position after firing.

At supervisory level, is responsible for control of operations and tactical employment of gun crews and guns.

Should be acquainted with mechanical functioning and tactical use of gun, the reduction of stoppages, and should be familiar with duties of all members of the crew.

SUGGESTED SUBSTITUTES

608 Gun Crewman, Coast Artillery
610 Antitank Gun Crewman
844 Gun Crewman, Light Artillery

MEDIUM TANK CREWMAN (2736)

Assault Gun Crewman,	Loader
Medium	Radio Tender
Bow Gunner	Tank Commander
Cannoneer	Tank Driver
Gunner	Tank Gunner

As member of crew of a medium tank or medium tank-mounted assault gun used in the attack of enemy positions, performs one or more of the following duties: Drives the vehicle to secure maximum fire effect without undue exposure to enemy fire. Operates the radio to maintain communication with other elements. Fires weapons of vehicle, including cannon and machine guns, to destroy enemy personnel, lines of communication, vehicles, pill boxes, and other targets, and to protect vehicle against attack. Inspects and checks engine, oil levels, innerphone headset communication, radio, vehicle operating equipment, turret mechanism, tracks, bogie wheels, ammunition, and weapons. Cleans and services .30- and .50-caliber machine guns and cannon, and bore-sights cannon.

At supervisory level, is responsible for control, coordination, and tactical employment of tank and crew member.

Must have sufficient knowledge of tactical employment of armored vehicles to be able to anticipate commands, take advantage of cover, and maneuver to obtain targets. Must be skillful in entering and leaving vehicle under combat conditions and capable of fighting with hand weapons when

dismounted. Must be familiar with gunnery techniques of direct and indirect fire.

SUGGESTED SUBSTITUTES

660 Tank Mechanic, Minor Maintenance
844 Gun Crewman, Light Artillery
1736 Light Tank Crewman

AERIAL ENGINEER (2750)

Assists airplane commander in the operation of a multiple engined airplane in flight by maintaining a constant check on its mechanical functionings.

Notes readings on engine (vacuum and pressure instruments). Maintains a log of engine performance including fuel flow and fuel remaining in tanks during flight. Reports any indication of malfunctioning. Maintains a record of the malfunctioning of engines and their components. Makes limited repairs and mechanical adjustments while in flight.

Assists in inspection and repair. Makes final check of the inspection and repairs accomplished. Assists the commander in decisions as to airworthiness of the airplane.

Must have thorough knowledge of airplane and engine maintenance and operation.

Must be physically qualified for flight duty to be classified in this MOS.

SUGGESTED SUBSTITUTES

684 Airplane Power Plant Mechanic
747 Airplane and Engine Mechanic
750 Airplane Maintenance Technician

RADIO OPERATOR AND MECHANIC, AAF (2756)

Operates airborne transmitting and receiving equipment. Sends and receives messages using letters and numerals of the International Morse Code, CW, ICW, tone or light signals in the same code.

Receives International Morse Code signals copying by hand-printing at a minimum speed of 16 five-letter random code groups per minute without error for a minimum period of 3 consecutive minutes out of 5.

Transmits International Morse Code signals, using hand key, at a minimum speed of 16 five-letter random code groups per minute without error for a minimum period of 2 consecutive minutes out of 3.

Handles without error, a minimum of 15 plain-dress normal form messages (averaging 10 five-letter code groups of text) in a field radio net of two or more stations through interference.

Normally operates airground, changing frequencies as required. Tunes radio equipment accurately and quickly to any required frequency covered by coils and installed equipment. Maintains calibration

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charts, revising transmitter tuning data as necessary. Must possess a thorough working knowledge of combined radiotelephone, radiotelegraph, and authentication procedures. Should be familiar with commonly used low grade cryptographic equipment and systems. Receives and transmits by light signals at a minimum speed of five words per minute. Maintains station logs and message files.

Performs necessary flight maintenance on airborne radio equipment used throughout the Army Air Forces. Makes required periodic inspections of radio equipment. Keeps equipment clean, inspects antenna systems, cords, plugs, telegraph key, and control switches and makes all necessary adjustments. Tests all Army Air Forces' radio equipment customarily installed on military aircraft, such as receivers, transmitter, power supply auxiliaries and accessories, changing tubes, or tuning coils and making minor repairs to equipment as necessary.

Must be physically qualified for flight duty.

RADAR OBSERVER-MECHANIC, BOMBARDMENT (2867)

Operates and performs first and second echelon maintenance and repair on such radio equipment as "H2X" and similar airborne devices, during flight, and when necessary on the ground. Tests, cleans, and adjusts the various types of apparatus covered above.

Must be qualified for combat air crew duty.

FLIGHT TRAFFIC CLERK (2967)

As member of the crew of a transport airplane, performs various duties in connection with handling of passengers, loading and unloading of cargo, and maintenance of records pertinent to flight.

Shares responsibility for maintenance of cabin discipline among passengers and security and safety of passengers and cargo. Distributes meals to passengers and crew members. Takes appropriate measures for protection of cargo and equipment, guarding against pilferage and unauthorized diversion of cargo. Collects passenger's transportation requests, checks loading and unloading of cargo, passengers, and passenger's baggage. Has custody of all traffic forms and prepares papers required by customs authorities. Serves as courier for classified mail and cargo.

May jettison cargo when so instructed.

Must be familiar with tie-down systems and proper placement of cargo in cabin to insure safe loading and unloading.

ANTIAIRCRAFT ARTILLERY AUTOMATIC WEAPONS CREWMAN, SP (3601)

As a member of a gun crew, performs one or more of the following duties incident to firing and maintenance of a self-propelled 37-mm gun, 40-mm gun, or similar automatic piece used for protection of combat elements or strategic areas from enemy aircraft or mechanized vehicles.

Passes ammunition to loader or loads clips and places them around gun. Inserts clips into auto-loader and adjusts firing lever.

If firing with director control, fires by pressing on foot pedal. Roughly aligns gun and director and throws gun into automatic control by operating gun sleeving clutch and elevation switch. Checks bore sighting and pulls rope tied around foot of firer when command to cease firing is given. Tracks target, using direct fire sights, operates deflection handle, estimating lateral and vertical leads and applying them to sighting system.

When firing without electrical director control, operates azimuth or elevation forward area sights, tracking target by sighting through direct fire sights and manipulating cranks, rotating gun. As elevation tracker, fires piece by pressing on foot pedal. Indicates target, gives or repeats commands to fire and adjusts fire by verbal order.

Sets up and operates machine gun or acts as ammunition man for machine gunner, covering with fire dead space immediately over gun position. Acts as lookout, reporting approach of enemy planes.

May drive vehicle on which weapon is mounted. May operate radio.

Should be familiar with duties of all members of the crew.

SUGGESTED SUBSTITUTE

601 AAA Automatic Weapons Crewman

AMPHIBIAN TANK CREWMAN (3736)

Ammunition Handler	Radio Tender
Assault Gun Crewman	Tank Commander
Cannoneer	Tank Driver
Gunner	Tank Gunner
Loader	

As member of crew of an amphibian tank used in the attack of enemy positions to establish beach-heads and in other like operations, performs one or more of the following duties. Drives the vehicle to secure maximum fire effect without undue exposure to enemy fire. Operates radio to maintain communication with other elements. Fires the weapons of the vehicle, including cannon and machine guns, to destroy enemy personnel, lines of communication, vehicles, pill boxes, and other targets, and to protect the vehicle against attack. Inspects

MILITARY OCCUPATIONAL CLASSIFICATION OF ENLISTED PERSONNEL

and checks engines, oil levels, innerphone headset communication, radio, vehicle operating equipment, turret mechanism, tracks, bogie wheels, ammunition, and weapons. Cleans and services .30- and .50-caliber machine guns and cannon, and bore-sights cannon.

Must have sufficient knowledge of the tactical employment and operation of amphibian tanks to be able to anticipate commands, take advantage of available cover on land, and maneuver to secure best fields of fire.

TRAFFIC ANALYST G (6709)

Performs traffic analysis duties on radio traffic intercepted from the German military communication system.

Assists in editing, preparing, logging, and tabulating communications traffic, and in controlling activities of intercept agencies to obtain maximum amount of intercept coverage. Reconstructs communication networks by graphic triangulation based on statistical tabulation of call signs, operating procedures, frequency tables, and traffic analyses.

May deduce and extract information of military value from intercepted traffic without recourse to cryptanalysis of the text.

Must have cryptographic clearance.

Must be familiar with radio call signs and operating procedure. Knowledge of Army organiza-

tion, the German language, cryptography, and geography desirable.

SUGGESTED SUBSTITUTE

738 Intercept Operator G

TRAFFIC ANALYST J (8709)

Performs traffic analysis duties on radio traffic intercepted from the Japanese military communication system.

Assists in editing, preparing, logging, and tabulating communications traffic, and in controlling activities of intercept agencies to obtain maximum amount of intercept coverage. Reconstructs communication networks by graphic triangulation based on statistical tabulation of call signs, operating procedures, frequency tables, and traffic analyses.

May deduce and extract information of military value from intercepted traffic without recourse to cryptanalysis of the text.

Must have cryptographic clearance.

Must be familiar with radio call signs and operating procedure. Knowledge of Army organization, the Japanese language, cryptography, and geography desirable.

SUGGESTED SUBSTITUTE

739 Intercept Operator J

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			Carpenter (AAF)	050	25
			Carpenter, Bridge	035	23

MILITARY OCCUPATIONAL CLASSIFICATION OF ENLISTED PERSONNEL

	SSN	Page		SSN	Page
Carpenter, Construction	050	25	Clerk, Headquarters	405	60
CARPENTER, GENERAL	050	25	Clerk, Historical	055	25
CARPENTER, HEAVY CONSTRUCTION	035	23	Clerk, Legal	279	52
CARPENTER, SHIP	202	44	Clerk, Message Center	667	85
CARTOGRAPHER	387	60	Clerk (Non-Typist) (AAF)	055	25
CASEMATE ELECTRICIAN	579	75	Clerk, Panel and Code	667	85
Cashier	373	59	Clerk, Parts, Armament	848	109
Casting Cleaner	129	35	Clerk, Personnel	405	60
Casting Machine Operator	168	40	Clerk, Postal	056	26
CENTRAL OFFICER REPAIRMAN	095	31	Clerk, Prosthetic Dental Supply	847	108
Central Station Fire Control Specialist	960	122	Clerk, Record	055	25
Chainman, Surveying	191	42	Clerk, Sales	373	59
Chaplain's Assistant	405	60	Clerk, Shipping	835	106
Chassis Mechanic Track Vehicle	908	113	Clerk, Shop	457	64
Chassis Mechanic Wheel Vehicle	906	113	Clerk, Statistical	055	25
Chauffeur	345	57	Clerk, Stock	835	106
CHEMICAL ENGINEER	293	54	Clerk, Supply	835	106
Chemical Equipment Operator	786	99	Clerk, Technical, Finance	622	80
Chemical Handler	786	99	Clerk, Technical Supply (AAF)	826	105
Chemical Inspector	292	54	CLERK-TYPIST	405	60
CHEMICAL LABORATORY ASSISTANT	411	61	Clerk-Typist, Finance	623	80
CHEMICAL NONCOMMISSIONED OFFICER	870	111	Clockmaker	381	59
Chemical Technician (AAF)	870	111	Clothing Repair Foreman	234	47
Chemical Warfare Basic	979	124	Coast Artillery Chief of Range	578	75
CHEMICAL WARFARE MAN, GENERAL	979	124	Coast Artillery Master Gunner	670	85
CHEMIST	292	54	Coast Artillery Observation Station Operator	578	75
CHIEF ARTILLERY MECHANIC	973	123	Coast Artillery Range Section Operator	724	91
Chief Baker	017	22	Code Clerk	667	85
CHIEF BALLOON RIGGER	615	79	Code Compiler	807	102
Chief Clerk	502	67	COMMISSARY STEWARD	819	103
Chief Field Lineman	641	82	COMMUNICATIONS CHIEF	542	71
Chief Installer, Telephone and Telegraph	261	50	Communications Sergeant	542	71
Chief Marine Engineer	080	29	Communications Supply Technician (AAF)	581	75
Chief Mechanic, Auto Repair Shop	337	56	Communications Technician (AAF)	542	71
Chief of Breech, Coast Artillery	608	78	Company Clerk	405	60
Chief of Detail, Field Artillery	577	74	Computer, Fire Director	645	82
Chief of Range, Coast Artillery	578	75	Computer, Geodetic	243	48
Chief of Section (see par. 10c, sec. 1)			Computer, Gun Data, Seacoast	572	74
Chief Oiler, Marine	141	37	Computer, Survey	228	46
Chief Operator, Sterilizer	103	32	Computer, Topographical	243	48
Chief Quartermaster	065	27	Concrete Mixer Operator	359	58
Chief Radar Operator (Designated Set)	514	68	CONDUCTOR, RAILWAY	058	26
Chief Radio Repairman, Fixed Station	649	83	CONSTRUCTION EQUIPMENT MECHANIC	319	56
Chief Steward	819	103	Construction Equipment Serviceman (AAF)	316	55
CHIEF STOREKEEPER, RAILWAY	769	98	Construction Foreman	059	26
Chief Submarine Cable Terminal Operator	209	45	Construction Laborer	188	42
Chief Submarine Mine Planter	722	90	CONSTRUCTION MACHINE OPERATOR	359	58
Chief Switchboard Operator, Field	650	83	Construction Technician (AAF)	059	26
Chief Toxic Gas Handler	786	99	Construction Worker (AAF)	188	42
Chief Telegraph Operator	236	47	CONTROL CENTER TECHNICIAN	768	98
Chief Teletypewriter Operator	237	47	Control Chief, Radio Intelligence	543	71
Chipper	129	35	CNS Radio Operator	759	96
Chiropodist	422	61	Control Room Operator	543	71
Clarinetist	432	62	Control Station Operator	763	97
CLASSIFICATION SPECIALIST	275	52	CONTROL SYSTEM REPAIRMAN, HEAVY ANTI-AIRCRAFT	919	116
Clerk, Account	055	25	Control System Repairman, Light, Antiaircraft Artillery	918	115
Clerk, Administrative and Technical	405	60	CONTROL TOWER OPERATOR	552	72
Clerk, Audit	055	25	COOK	060	26
Clerk, Automotive Parts	348	58	Cook's Helper	590	76
Clerk, Battery	405	60	COOPER	270	51
Clerk, Chief	502	67	COPPERSMITH	061	26
Clerk, Code	667	85	Coremaker	129	35
Clerk, Company	405	60	Cornetist	433	62
Clerk, File	055	25	Counselor, Occupational Rehabilitation	262	50
Clerk, Finance	624	80	Counterintelligence Corps Agent	301	55
Clerk, Flight Traffic	2967	129			
CLERK, GENERAL	055	25			

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Counterintelligence Corps Special Agent	301	55	DRAFTSMAN, STRUCTURAL	074	28
Court Reporter	213	45	DRAFTSMAN, TOPOGRAPHIC	076	28
Coxswain, L Boat	547	71	Drag Tender	116	34
Coxswain, Landing Craft	838	106	Dredgehand	116	34
COXSWAIN, MINE YAWL	546	71	DREDGEMAN	116	34
COXSWAIN, RADIO TARGET BOAT	703	89	Dredge Leverman	116	34
CRANE OPERATOR	063	27	Dredge Pipe-Line Foreman	116	34
Crash Boat Operator	118	35	Drill Press Operator	302	55
Crew Chief, Airplane	750	95	Driver, Ambulance	345	57
Criminal Identification Laboratory Technician	677	86	Driver, Amphibian Truck	934	118
CRYPTANALYSIS TECHNICIAN	808	102	Driver, Full-Track	735	92
Cryptanalyst	808	102	Driver, Half-Track	931	118
Cryptographer	807	102	Driver, Heavy Truck	931	118
CRYPTOGRAPHIC CODE COMPILER	807	102	Driver, Horse Artillery	563	73
CRYPTOGRAPHIC REPAIRMAN (DESIGNED EQUIPMENT)	801	101	Driver, Light Truck	345	57
CRYPTOGRAPHIC TECHNICIAN	805	102	Driver, Pack	565	73
CRYSTAL GRINDER	150	38	Driver, Reconnaissance or Scout Car	733	92
Cutter, Film	131	36	Driver, Self-Propelled Antitank Gun	610	79
Cutter, Sound	287	53	Driver, Tank, Light	1736	126
			Driver, Tank, Medium	2736	128
			Driver, Trailer Truck	932	118
D			Duplicating Machine Operator (Ditto or Mimeograph)	055	25
Dairy Inspector	120	35	Duplicating Machine Operator (Multilith or Multigraph)	128	35
Deckhand	065	27	DUTY NONCOMMISSIONED OFFICER	566	73
DECONTAMINATING EQUIPMENT OPERATOR	809	102	DUTY SOLDIER I	522	69
DEMOLITION SPECIALIST	533	70	DUTY SOLDIER II	188	42
Demolition Technician Army Air Forces	533	70	DUTY SOLDIER III	590	76
DENTAL LABORATORY TECHNICIAN	067	27			
Dental Mechanic	067	27	E		
DENTAL TECHNICIAN	855	109	Earth-Boring Machine Operator	188	42
Diesel Engineman	081	29	Editor	274	52
Diesel Locomotive Engineer	110	33	Educational Reconditioning Instructor	659	84
Diesel Locomotive Mechanic	013	21	Electric Arc Welder	256	49
DIESEL MECHANIC	013	21	Electric Locomotive Engineer	110	33
Diesel Mechanic, Marine	477	65	ELECTRIC LOCOMOTIVE REPAIRMAN	135	36
Diesel Mechanic, Tractor	013	21	ELECTRIC MOTOR REPAIRMAN	304	55
Dining Room Orderly	590	76	Electrical Accessories Repairman, Airplane and Engine	958	121
DIRECTION FINDER EVALUATOR	869	111	Electrical Director Repairman, Heavy Anti-aircraft Artillery	899	112
Director Observer, Antiaircraft	1645	125	Electrical Draftsman	075	28
Director Operator, Antiaircraft	1645	125	Electrical Instrument Mechanic, Airplane	957	121
DIRECTOR REPAIRMAN, ELECTRICAL, HEAVY ANTI-AIRCRAFT ARTILLERY	899	112	Electrical Instrument Repairman	338	57
Director Repairman, Light Antiaircraft Artillery	918	115	Electrical Mechanic, Airplane	685	87
DIRECTOR REPAIRMAN, MECHANICAL, HEAVY ANTI-AIRCRAFT ARTILLERY	917	115	ELECTRICIAN	078	29
Dispatcher-Clerk (Crew)	055	25	ELECTRICIAN, AUTOMOTIVE	912	114
Dispatcher-Clerk Motor Vehicle	055	25	Electrician, Automotive (Second Echelon)	014	21
Dispatcher-Driver (Light Truck)	345	57	Electrician, Casemate	579	75
Dispatcher-Driver, Heavy Truck	931	118	Electrician, Fire Control, Antiaircraft, Automatic Weapons	633	81
DISPATCHER, RAILWAY	069	27	Electrician, Fire Control, Antiaircraft, Gun	634	81
Ditto or Mimeograph Machine Operator	055	25	Electrician, Generator and Motion Picture	132	36
DIVER	454	63	ELECTRICIAN, HARBOR DEFENSE	571	73
Diver, First Class	454	63	Electrician, M1 Seacoast Gun Data Computer	572	74
Diver, Second Class	454	63	ELECTRICIAN, MOTION PICTURE	132	36
DIVER'S HELPER	455	63	Electrician, Power Plant	258	49
Dock Boss	271	51	Electrician, Searchlight	635	82
Dock Builder	035	23	ELECTRICIAN, SOUND TRANSMISSION	415	61
Dog Handler	458	64	Electrician, Substation	258	49
DOG TRAINER	458	64	Electrician, Track and Wheel Vehicle	912	114
Dog Training Instructor	458	64	Engine and Airplane Mechanic	747	94
DRAFTSMAN	070	27	Engine Lathe Operator	302	55
DRAFTSMAN, ELECTRICAL	075	28	Engine Mechanic, Track Vehicle	909	114
Draftsman, Lithographic	107	32	Engine Mechanic, Wheel Vehicle	905	113
DRAFTSMAN, MECHANICAL	071	28	Engine Repairman, Airplane	762	97
Draftsman, Observation	1076	124	Engine Specialist (Machinist, Automobile)	114	34
Draftsman, Railway	071	28			

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Engine Tester	160	39	Fire Control Instrument Repairman	922	116
Engineer, Aerial	2750	128	Fire Control Noncommissioned Officer, Field Artillery	577	74
Engineer Basic	729	91	Fire Control Observer, Antiaircraft, Flank Station	518	68
Engineer, Chemical	293	54	FIRE CONTROL REPAIRMAN, LIGHT ANTIAIRCRAFT ARTILLERY	918	115
Engineer, Chief Marine	080	29	Fire Director Computer	645	82
Engineer Equipment Parts Clerk	348	58	FIRE FIGHTER	383	59
Engineer, Explosives	533	70	Firearms Identification Specialist	677	86
Engineer, Flight	737	92	Fireman, Furnace	590	76
Engineer-Gunner, Aerial	748	94	Fireman, Locomotive	111	33
Engineer, Locomotive	110	33	Fireman, Marine	117	34
Engineer, Marine	080	29	Fireman, Oven	590	76
Engineer, Powerhouse	077	29	Fireman, Stationary	084	30
Engineer, Safety, Petroleum Products	486	66	First-Aid Man	657	84
Engineer, Stationary	082	29	First Sergeant (see par. 10c sec. 1)		
ENGINEER SUPPLY TECHNICIAN	583	76	Flame Thrower	533	70
Engineer, Water Supply	727	91	Flash Ranging Chief	576	74
ENGINEERING AIDE (DESIGNATED FIELD)	170	40	FLASH RANGING OBSERVER	576	74
Engineering Technician, Aircraft	925	117	Flash Switchboard Operator	576	74
Engineman, Diesel	081	29	FLEXIBLE GUNNERY TRAINER OPERATOR-MECHANIC	691	88
Engineman, Marine	839	107	Flight Chief, Airplane	750	95
ENGINEMAN, OPERATING	081	29	FLIGHT ENGINEER	737	92
Engraver, Lithographic	107	32	Flight Surgeon's Assistant	409	61
Enlisted Airplane Pilot	770	98	FLIGHT TRAFFIC CLERK	2967	129
Enlisted Bombardier	509	67	Flute Player	437	62
Enlisted Liaison Pilot-Mechanic	772	98	Forage Inspector	710	89
Enlisted Service Pilot	773	98	Forecaster, Weather	787	100
Entertainer	442	63	FOREMAN, AUTOMOTIVE REPAIR SHOP	337	56
Entertainment Director	442	63	Foreman, Blacksmith	024	22
ENTERTAINMENT SPECIALIST	442	63	Foreman, Boilermaker	030	23
ENTOMOLOGY TECHNICIAN	484	66	Foreman, Bridge	035	23
Equipment Maintenance Man, Motion Picture	042	24	Foreman, Butcher	037	23
Equipment Mechanic, Target Airplane, PQ	994	124	Foreman, Car Carpenter	046	24
Equipment Repairman, Motion Picture	042	24	Foreman, Car Mechanic	048	25
Euphonium Player	436	62	Foreman, Clothing Repair	234	47
Explosive Engineer	533	70	FOREMAN, CONSTRUCTION	059	26
F					
FABRIC AND DOPE MECHANIC	548	72	Foreman, Construction Equipment Repair	319	56
FACSIMILE OPERATOR	893	112	Foreman, Dredge Pipe-line	116	34
FACSIMILE TECHNICIAN	894	112	Foreman, Foundry	129	35
Field Artillery Fire Control Instrument Operator	645	82	FOREMAN, FUMIGATION AND BATH	591	76
Field Artillery Sound Recorder	836	106	Foreman, Hatch	271	51
Field Inspector, Ammunition	949	120	Foreman, Horse Trainer	093	30
FIELD LINEMAN	641	82	FOREMAN, LABOR	356	58
Field Wire Chief	641	82	FOREMAN, LAUNDRY	102	32
Field Wire Noncommissioned Officer	641	82	Foreman, Lithographer	107	32
File Clerk	055	25	FOREMAN, LOGGING	466	65
Film Cutter	131	36	Foreman, Lumber Yard	459	64
FILM EDITOR, MOTION PICTURE	131	36	Foreman, Machine Shop	114	34
Film Librarian	055	25	Foreman, Machinist	114	34
Film Recorder, Motion Picture, Sound	208	45	Foreman Mechanic, Laundry	104	32
Film Strip Artist	296	54	Foreman Mechanic, Locomotive	112	33
Filter Board Instructor	510	67	Foreman, Milling	459	64
Filter Operator, Water Supply	727	91	Foreman, Oxygen and Acetylene Plant	719	90
Filter Unit Operator	727	91	Foreman, Piling (Lumber)	459	64
Filterer, Aircraft Warning	510	67	Foreman, Pipe-line Construction	059	26
FINANCE CLERK	624	80	Foreman, Railway Yard	265	51
FINANCE TECHNICAL CLERK	622	80	Foreman, Salvage	194	43
FINANCE TYPIST-CLERK	623	80	Foreman, Sawmill	459	64
Fingerprinter	301	55	Foreman, Shoe Repair	204	44
FIRE CONTROL ELECTRICIAN, ANTIAIRCRAFT (AUTOMATIC WEAPONS)	633	81	Foreman, Stevedore	271	51
FIRE CONTROL ELECTRICIAN, ANTIAIRCRAFT (GUN)	634	81	FOREMAN, WAREHOUSE	252	49
FIRE CONTROL INSTRUMENT OPERATOR, FIELD ARTILLERY	645	82	Foreman, Water Supply	727	91
			FOREST PRODUCTS TALLYMAN	462	64
			Forging Press Operator	024	22
			Fork Lift Operator	188	42

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Foundry Foreman	129	35	Gunner, Master, Coast Artillery.....	670	85
FOUNDRYMAN	129	35	Gunner-Mechanic, Airplane	748	94
Frameman, Telephone and Telegraph.....	095	31	Gunner-Mechanic, Airplane Power Plant... 1684	126	126
French Horn Player.....	438	62	Gunner-Mechanic, Electrical, Airplane..... 1685	126	126
Fuel Induction Mechanic.....	926	117	Gunner-Mechanic-Operator, Radio, Army Air Forces	757	95
FUEL CELL REPAIRMAN.....	665	85	Gunner-Mechanic, Remote Control Turret... 580	75	75
FULL-TRACK DRIVER	735	92	Gunner, Medium Tank	2736	128
Fumigation and Bath Foreman.....	591	76	Gunner, Pack Artillery	1531	125
FUMIGATION AND BATH MAN.....	706	89	Gunner-Photographer, Aerial	939	119
Fumigation Chamber Operator	706	89	Gunnery Instructor, AAF.....	938	119
Furnace Fireman	590	76	Gunsight and Power Turret Mechanic.....	678	87
Furnace Operator	129	35	Gunsight and Power Turret Repairman.....	681	87
Fuze Setter, Antiaircraft Artillery, Gun..... 2601	2601	127	GYROSTABILIZER MECHANIC	1907	127
Fuze Setter, Coast Artillery.....	608	78			
G					
Gager, Petroleum Products.....	522	69	Half-Track Driver	931	118
Gangwayman	271	51	Half-Track Driver, Antitank Gun Crew.....	610	79
Gantry Crane Operator.....	063	26	Hammersmith	024	22
Gas Dispenser Operator	081	29	Handler, Toxic Gas.....	786	99
Gas Handler	786	99	Harbor Craft Coxswain.....	823	104
Gas Handler, Balloon	535	70	HD Electrician	571	73
Gas Mask Repairman	609	79	Harness Maker	192	42
Gas and Oil Man	316	55	Hatch Foreman	271	51
Generator Operator, Power, Portable.....	846	108	Hatch Tender	271	51
GENERATOR SWITCHBOARD OPERATOR	092	30	Header	271	51
GEODETIC COMPUTER	243	48	Headquarters Clerk	405	60
GLASSBLOWER	358	58	Heat Treater	024	22
GLIDER MECHANIC	559	72	Heavy Antiaircraft Artillery Control System Repairman	919	116
Glockenspiel Player	434	62	Heavy Antiaircraft Artillery Mechanical Director Repairman	917	115
Graphotype Machine Operator	405	60	Heavy Artillery Gun Crewman	845	108
Grinder, Crystal	150	38	Heavy Artillery Mechanic	914	115
Grinding Machine Operator.....	302	55	Heavy Automotive Equipment Operator (AAF)	931	118
GROUND AIRCRAFT OBSERVER.....	518	68	HEAVY MACHINE GUNNER	605	78
Ground Loran, Radar Mechanic.....	948	120	Heavy Mortar Assistant	1607	125
Ground Observer, Aircraft Warning (AAF).. 518	518	68	HEAVY MORTAR CREWMAN.....	1607	125
Groundman, Telephone and Telegraph..... 238	238	48	Heavy Mortar Gunner.....	1607	125
Guard-Patrolman	522	69	HEAVY WEAPONS NONCOMMISSIONED OFFICER	812	102
Guard, Toxic Gas.....	786	99	HEIGHT FINDER OBSERVER	692	88
Gun Commander, Antitank	610	79	HEIGHT FINDER REPAIRMAN	921	116
Gun Commander, Coast Artillery.....	608	78	High Speed Radio Operator, Automatic	777	99
Gun Crewman, Antiaircraft Artillery..... 2601	2601	127	High Speed Radio Operator, Manual	766	97
GUN CREWMAN, COAST ARTILLERY....	608	78	HIGH VOLTAGE CABLE SPLICER	401	60
GUN CREWMAN, HEAVY ARTILLERY....	845	108	HIGH VOLTAGE LINEMAN	182	41
GUN CREWMAN, LIGHT ARTILLERY ..	844	108	Highway Construction Machine Operator.... 359	58	58
GUN CREWMAN, MEDIUM ARTILLERY..	864	111	Highway Maintenance Man.....	188	42
GUN CREWMAN, PACK ARTILLERY.... 1531	1531	125	Historical Clerk	055	25
Gun Data Computer, Seacoast.....	572	74	Hoist Operator	063	26
Gun Pointer, Coast Artillery.....	608	78	Horizontal Operator	645	82
Gunner, Aerial	611	79	HORSE ARTILLERY DRIVER.....	563	73
Gunner, Amphibian Tank	3736	129	Horse Trainer	093	30
Gunner, Antiaircraft Artillery, Automatic Weapons	601	77	HORSEBREAKER	093	30
Gunner, Antiaircraft Artillery, Gun..... 2601	2601	127	Horseholder	590	76
Gunner, Antiaircraft, SP	597	77	HORSESHOER	094	30
Gunner, Antitank (Reconnaissance).....	733	92	Hospital Orderly	657	84
Gunner-Armorer, Airplane	612	79	Hot Press Operator.....	168	40
Gunner, Coast Artillery	608	78	Hydraulic Brake Mechanic, Airplane.....	528	69
Gunner-Engineer, Aerial	748	94			
Gunner, Heavy Artillery	845	108	I		
Gunner, Light Artillery	844	108	Infantry Cannon Crewman.....	844	108
Gunner, Light Mortar.....	607	78	INFORMATION CENTER OPERATOR.....	510	67
Gunner, Light Tank	1736	126	Insideman, Telephone	095	31
Gunner, Machine, Antiaircraft	597	77	Inspector, Administrative	502	67
Gunner, Machine, Antiaircraft Artillery, Automatic Weapons	601	77	Inspector, Airplane	750	95
Gunner, Master, Antiaircraft, Gun.....	671	86			

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Inspector, Airplane (Third and Fourth Echelon Repair)	925	117	J		
Inspector, Ammunition	949	120	Jackhammer Operator	188	42
Inspector, Boiler	030	23	Job Analyst	275	52
Inspector, Brake, Locomotive.....	112	33	JOB PRESSMAN	169	40
Inspector, Brake, Railway	048	25			
Inspector, Bridge	035	23	K		
Inspector, Chemical	292	54	Kennelman	458	64
Inspector, Meat or Dairy.....	120	35	KEY PUNCH MACHINE OPERATOR.....	272	51
Inspector, Motor	413	61	Kitchen Helper	590	76
Inspector, Salvage	194	43	Knock Engine Tester	160	39
Inspector, Telephone	261	50			
Inspector, Vehicle	413	61	L		
Inspector, Watch or Clock.....	381	59	L Boat Master.....	547	71
Installer-Repairman, Aircraft Warning Plotting Board	097	31	Labor Foreman	356	58
Installer-Repairman, Railway (Tp and Tg)...	238	48	Laboratory Assistant, Chemical	411	61
Installer-Repairman, Switchboard, Manual...	232	47	Laboratory Assistant, Physics	160	39
INSTALLER-REPAIRMAN, TELEPHONE AND TELEGRAPH	097	31	Laboratory Equipment Repairman (Camera).....	042	24
INSTALLER, TOLL TELEPHONE AND TELEGRAPH	384	59	Laboratory Supervisor, Motion Picture.....	134	36
INSTRUCTOR (DESIGNATED SUBJECT).....	659	84	Laboratory Technician, Developer, Still	945	119
Instructor, Athletics	283	53	Laboratory Technician, General, Photographic	945	119
Instructor, Dog Training	458	64	Laboratory Technician, Medical	858	110
Instructor, Gunnery (AAF)	938	119	LABORATORY TECHNICIAN, MOTION PICTURE	134	36
Instructor, Link Trainer	658	84	Laboratory Technician, Photographic, Aerial.....	945	119
Instructor, Physical Reconditioning	283	53	Laboratory Technician, Sensitometry	134	36
Instructor, Senior, Technical	659	84	Laboratory Technician, 16-mm	134	36
Instructor, Special Service School.....	659	84	Laboratory Technician, 35-mm	134	36
Instructor, Technical	659	84	LABORATORY TECHNICIAN, V-MAIL OR MICROFILM	016	21
INSTRUMENT LANDING EQUIPMENT MECHANIC	933	118	Laborer	590	76
Instrument Man, Survey	228	46	Laborer, Construction	188	42
Instrument Mechanic, Airplane.....	686	88	Landing Craft Boatswain	838	106
Instrument Noncommissioned Officer, Field Artillery, Survey	577	74	Landing Craft Coxswain	838	106
Instrument Noncommissioned Officer, Heavy Machine Gun	605	78	Landing Craft Noncommissioned Officer.....	838	106
Instrument Noncommissioned Officer, Heavy Mortar	1607	125	Landing Craft Seaman	838	106
Instrument Observer, Coast Artillery Observation Station	578	75	Laundry, Foreman	102	32
Instrument Repairman, Airplane Gyro.....	961	122	LAUNDRY MACHINE OPERATOR	103	32
Instrument Repairman, Airplane, Mechanical.....	959	122	LAUNDRY MAINTENANCE MECHANIC..	104	32
INSTRUMENT REPAIRMAN, ELECTRICAL	338	57	Laundry Mechanic	104	32
INSTRUMENT REPAIRMAN, FIRE CONTROL	922	116	Laundry Technician (AAF)	102	32
INSTRUMENT REPAIRMAN, NON-ELECTRICAL	098	31	Lay-out Man, Photographic.....	945	119
Instrument Repairman, Optical.....	962	122	LEATHER AND CANVAS WORKER.....	609	79
Intelligence Control Chief, Radio.....	543	71	LEGAL CLERK	279	52
INTELLIGENCE NONCOMMISSIONED OFFICER	631	81	Leverman, Dredge	116	34
Intelligence Observer, Field Artillery.....	577	74	Liaison Agent, Scouting.....	761	96
Intelligence Observer, Reconnaissance Car...	733	92	LIAISON PILOT	772	98
Intelligence Observer, Scouting	761	96	Librarian	055	25
Intelligence Specialist (AAF).....	631	81	Light Antiaircraft Artillery, Fire Control Repairman	918	115
INTERCEPT OPERATOR, FIXED STATION	799	101	Light Artillery Gun Crewman	844	108
INTERCEPT OPERATOR, G	738	93	Light Artillery Mechanic	913	114
INTERCEPT OPERATOR, J	739	93	LIGHT MACHINE GUNNER	604	78
Intermediate Speed Radio Operator.....	740	93	LIGHT MORTAR CREWMAN	607	78
INTERPRETER	320	56	LIGHT TANK CREWMAN	1736	126
INVESTIGATOR	301	55	Light Truck Driver	345	57
			LIGHT WEAPONS NONCOMMISSIONED OFFICER	1812	127
			Line Chief (Third and Fourth Echelon Repair)	925	117
			Line Chief, Airplane	750	95
			Lineman, Field	641	82
			Lineman, High Voltage	182	41
			LINEMAN, POWER	165	39
			LINEMAN, TELEPHONE AND TELEGRAPH	238	48
			LINK CELESTIAL NAVIGATION TRAINER MECHANIC	969	123

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TRAINER OPERATOR	970	123	MASTER GUNNER, ANTI-AIRCRAFT	832	105
LINK TRAINER INSTRUCTOR	658	84	MASTER GUNNER, ANTI-AIRCRAFT		
LINK TRAINER MECHANIC	593	77	(GUN)	671	86
Linotype Operator	168	40	Master Gunner, Automatic Weapons, Anti-air-		
Lithographer, Foreman	107	32	craft	832	105
Lithographer, General	107	32	Master Gunner, Barrage Balloon	832	105
Lithographer, Photo Transferer	107	32	MASTER GUNNER, COAST ARTILLERY	670	85
Lithographic Draftsman	107	32	Master Gunner, Searchlight	832	105
Lithographic Engraver	107	32	MASTER, L BOAT	547	71
LITHOGRAPHIC PRESSMAN	167	40	MASTER MECHANIC	342	57
Litter Bearer	657	84	Master Mechanic, Marine	477	65
Loader, Amphibian Tank	3736	129	Master, Ship	118	35
Loader, Light Tank	1736	126	Mate	118	35
Loader, Medium Tank	2736	128	MEAT CUTTER	037	23
Locomotive Brake Inspector	112	33	MEAT OR DAIRY INSPECTOR	120	35
Locomotive Brake Mechanic	112	33	Meat Inspector	120	35
Locomotive Diesel Mechanic	013	21	Mechanic, Aerial Torpedo	662	84
LOCOMOTIVE ENGINEER	110	33	Mechanic, Airbrake	048	25
Locomotive Engineer, Diesel	110	33	Mechanic, Airplane Cable	689	88
Locomotive Engineer, Electric	110	33	Mechanic, Airplane, Electrical	685	87
Locomotive Engineer, Steam	110	33	Mechanic, Airplane Electrical Instrument	957	121
LOCOMOTIVE FIREMAN	111	33	Mechanic, Airplane Instrument	686	88
Locomotive Hostler	112	33	Mechanic, Airplane Plant	684	87
LOCOMOTIVE MECHANIC	112	33	Mechanic, Airplane, Propeller	687	88
Locomotive Oiler	112	33	Mechanic, Amphibian Track Vehicle	837	106
Locomotive Repairman, Electric	135	36	Mechanic, Antiaircraft Artillery, Gun	834	105
Log Scaler	462	64	Mechanic, Antiaircraft Artillery, Self-Pro-		
Logging Foreman	466	65	pelled	841	107
LONGSHOREMAN	271	51	Mechanic, Antiaircraft, Automatic Weapons,		
Low Speed Radio Operator	776	98	Minor Maintenance	833	105
Lubricator	316	55	Mechanic, Amphibian Truck (Dukw)	797	101
Lumber Grader Tallyman	462	64	Mechanic, Artillery, Chief	973	123
Lumber Yard Foreman	459	64	Mechanic, Artillery, Light Antiaircraft	978	124
LUMBERJACK	329	56	Mechanic, Artillery, Minor Maintenance	802	101
			Mechanic, Assault Gun, Minor Maintenance	660	84
			Mechanic, Automotive Auxiliaries	907	113
			Mechanic, Automotive Chassis	906	113
			Mechanic, Automotive Engine, Track Vehicle	909	114
			Mechanic, Automotive Engine, Wheel Vehicle	905	113
			Mechanic, Automotive Equipment, Army Air		
			Forces	014	21
			Mechanic, Automotive (Second Echelon)	014	21
			MECHANIC, AUTOMOTIVE, TRACK VE-		
			HICLE (THIRD ECHELON)	966	123
			MECHANIC, AUTOMOTIVE, WHEEL VE-		
			HICLE (THIRD ECHELON)	965	122
			Mechanic, Bombsight	683	87
			Mechanic, Cargo Gear	246	49
			MECHANIC, CHASSIS, TRACK VEHICLE	908	113
			MECHANIC, CHASSIS, WHEEL VEHICLE	906	113
			Mechanic, Chief, Automotive	337	56
			Mechanic, Construction Equipment	319	56
			Mechanic, Dental	067	27
			Mechanic, Diesel	013	21
			Mechanic, Diesel, Locomotive	013	21
			Mechanic, Diesel (Marine)	477	65
			Mechanic, Engine and Airplane	747	94
			Mechanic, Engine, Track Vehicle, Diesel	909	114
			MECHANIC, ENGINE, TRACK VEHICLE	909	114
			MECHANIC, ENGINE, WHEEL VEHICLE		
			(GASOLINE)	905	113
			Mechanic, Fabric and Dope	548	72
			MECHANIC, FUEL INDUCTION	926	117
			Mechanic, General	121	35
			Mechanic, Glider	559	72
			Mechanic-Gunner, Airplane	748	94

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Mechanic-Gunner, Electrical, Airplane	1685	126	MESSAGE CENTER CLERK.....	667	85
Mechanic-Gunner-Operator, Radio, Army Air Forces	757	95	Messenger (see par. 10c, sec. I).		
Mechanic-Gunner, Remote Control Turret ...	580	75	Messenger (Bugler)	803	102
Mechanic, Gyrostabilizer	1907	127	Messenger-Dispatcher	667	85
Mechanic, Hand and Shoulder Weapons.....	903	112	Meteorological Observer	784	99
Mechanic, Heavy Antiaircraft Artillery.....	915	115	Meteorological Plotter	784	99
Mechanic, Heavy Artillery	914	115	Meteorologist	787	100
Mechanic, Hydraulic, Airplane	528	69	MICROFILM EQUIPMENT REPAIRMAN... 158	39	
Mechanic, Instrument Landing Equipment ...	933	118	Microfilm or V-Mail Laboratory Technician... 016	21	
Mechanic, Laundry Maintenance	104	32	MILITARY POLICEMAN	677	85
Mechanic, Light Artillery	913	114	MILITARY POLICEMAN, OCCUPIED TERRITORY	669	85
Mechanic, Link Celestial Navigation Trainer..	969	123	Milling Machine Operator.....	302	55
Mechanic, Link Trainer	593	77	Millwright	342	57
Mechanic, Locomotive, Brake	112	133	MILLWRIGHT, SAWMILL	464	64
Mechanic, Machine Gun	903	112	Mimeograph or Ditto Machine Operator.....	055	25
MECHANIC, MARINE ENGINE	477	65	Mine Assembler, Submarine Mine.....	656	83
Mechanic, Motorcycle	138	37	MINE DETECTOR OPERATOR.....	968	123
Mechanic, Motorcycle (Second Echelon).....	014	21	Mine Loader, Submarine.....	656	83
Mechanic-Observer, Radar, Bombardment ...	2867	129	Mine Planter	722	90
Mechanic-Operator, Flexible Gunnery Trainer.	691	88	Mine, Submarine, Loader.....	656	83
Mechanic and Operator, Radio (AAF).....	2756	128	MINE SUPPLY MAINTENANCE TECHNICIAN	714	90
Mechanic, Power Turret and Gunsight.....	678	87	Mine Technician, Aerial	582	76
Mechanic, Radar (All Types) (See Radar Mechanic.)			Mine Yawl Coxswain	546	71
Mechanic, Radar, Ground Equipment (Designated Set)	775	98	Mixer, Sound, Motion Picture.....	407	60
Mechanic, Radar, Ground Loran	948	120	Mobile Repair Unit Chief.....	925	117
Mechanic, Radio, Army Air Forces	754	95	MODEL MAKER	136	37
Mechanic, Radio, Army Airways Communications System	778	99	Molder	129	35
Mechanic, Radio Teletype	868	111	Monotype Operator	168	40
Mechanic, Railway, General	048	25	Mortar Assistant, Heavy Mortar	1607	125
Mechanic, Refrigeration	322	56	Mortar Assistant, Light Mortar	607	78
Mechanic, Remote Control Turret.....	960	122	Mortar Gunner, Heavy Mortar.....	1607	125
Mechanic-Repairman, Petroleum Pumping Equipment	487	66	Mortar Gunner, Light Mortar	607	78
Mechanic, Seacoast Artillery	914	115	Mortar Noncommissioned Officer, Light Mortar	607	78
Mechanic, Shop Maintenance	341	57	Motion Picture, Animation Artist	130	36
Mechanic, Small Arms Weapons	903	112	Motion Picture Cameraman	043	24
Mechanic, Tank, Minor Maintenance	660	84	Motion Picture Cameraman, Animated	285	53
Mechanic, Target Airplane Motor	014	21	Motion Picture Electrician	132	36
Mechanic, Teletype	239	48	Motion Picture Equipment Repairman	042	24
Mechanic, Tractor	319	56	Motion Picture Film Artist	131	36
Mechanic, Tractor (Diesel)	013	21	Motion Picture Film Recorder, Sound.....	208	45
MECHANIC, TURRET	907	113	Motion Picture Laboratory Technician	134	36
Mechanic, Winch	081	29	MOTION PICTURE PRODUCTION TECHNICIAN	286	53
Mechanical Director Repairman, Heavy Antiaircraft Artillery	917	115	Motion Picture Projectionist	137	37
Mechanical Draftsman	071	28	Motion Picture Sound Editor	287	53
Medical Administrative Specialist (AAF)....	673	86	Motion Picture Sound Mixer	407	60
MEDICAL AIDMAN	657	84	Motion Picture Sound Recorder	208	45
Medical Basic	657	84	Motion Picture Technician (AAF)	286	53
Medical Corpsman (AAF)	657	84	MOTOR INSPECTOR	413	61
MEDICAL EQUIPMENT MAINTENANCE TECHNICIAN	229	46	Motor Repairman, Electric	304	55
MEDICAL LABORATORY TECHNICIAN... 858	110		Motor Transportation Noncommissioned Officer	014	21
MEDICAL NONCOMMISSIONED OFFICER	673	86	Motorboat Operator (Pioneer)	729	91
Medical Secretary	213	45	Motorboat Operator (Pontoneer)	817	103
MEDICAL SUPPLY NONCOMMISSIONED OFFICER	825	104	Motorboat Operator (Seaman)	065	27
Medical Supply Technician (AAF).....	825	104	MOTORCYCLE MECHANIC	138	37
MEDICAL TECHNICIAN	409	61	Motorcycle Mechanic (Second Echelon).....	014	21
MEDIUM TANK CREWMAN	2736	128	Motorcycle Scout	378	59
MESS SERGEANT	824	104	MOTORCYCLIST	378	59
MESSAGE CENTER CHIEF (Division or Higher)	674	86	Multigraph Operator	128	35
			MULTILITH OR MULTIGRAPH OPERATOR	128	35
			Multilith Operator	128	35
			MUNITIONS WORKER	901	112

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Musician, Instrumental	442	63	Parachute Packer	620	80
N					
Negative Cutter	131	36	Parachute Packer, Target Airplane	522	69
News Photographer	152	38	Parachute Repairman	620	80
Non-Electrical Instrument Repairman.....	098	31	PARACHUTE RIGGER AND REPAIRMAN.....	620	80
Nurse, Male, Operating Room.....	861	110	Parachutist (see par. 16a, sec. I).		
Nurse, Male, Practical.....	409	61	PARTS CLERK, ARMAMENT	848	109
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Oboe Player	175	41	PARTS CLERK, AUTOMOTIVE	348	58
OBSERVATION DRAFTSMAN	1076	124	Parts Clerk, Engineer Equipment.....	348	58
OBSERVATION STATION OPERATOR, COAST ARTILLERY	578	75	Patrolman, Pipe-line	522	69
Observer, Aircraft, Ground	518	68	PATTERN MAKER, WOOD.....	148	38
Observer, Director, Antiaircraft	1645	125	Pattern Maker, Wood (Railway)	046	24
Observer, Flash Ranging	576	74	Personnel Clerk	405	60
Observer, Height Finder	692	88	PERSONNEL CONSULTANT ASSISTANT..	289	54
Observer, Intelligence, Field Artillery	577	74	Personnel Noncommissioned Officer.....	502	67
Observer, Intelligence, Reconnaissance	733	92	PERSONNEL TECHNICIAN	290	54
Observer, Intelligence, Scouting	761	96	Petroleum Laboratory Technician	160	39
Observer-Mechanic, Radar, Bombardment	2867	129	Petroleum Products Gauger	522	69
Observer, Radar, Sea Search	866	111	Petroleum Products Safety Engineer	486	66
Observer, Sound Ranging	586	76	PETROLEUM PUMPING EQUIPMENT RE- PAIRMAN	487	66
Observer, Weather	784	99	PETROLEUM STORAGE TECHNICIAN ...	485	66
Observer, Weather, Teletype Technician	790	100	Petroleum Test Engine Operator	160	39
Occupational Military Policeman.....	669	85	PHARMACIST	149	38
OCCUPATIONAL COUNSELOR	262	50	PHARMACY TECHNICIAN	859	110
OFFICE MACHINE SERVICEMAN.....	282	52	Photo Interpreter	070	27
OFFICER CANDIDATE	625	81	Photoengraving Photographer	107	32
Oiler, Locomotive	112	33	Photogrammetrist	004	21
Oiler, Marine	141	37	PHOTOGRAPHER	152	38
OPERATIONS NCO	814	103	Photographer, Aerial	940	119
Operations Specialist, Air	791	100	Photographer, Copy Cameraman (Lithograph- ing)	107	32
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OPTICIAN	365	58	Photographer-Gunner, Aerial	939	119
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Orchestra Leader	020	22	Photographer, Photoengraving	107	32
Orderly	590	76	Photographer, Portrait	152	38
Orderly, Ambulance	345	57	Photographer, Printer	945	119
Orderly, Hospital	657	84	Photographer, Retouching Artist	945	119
Orderly, Veterinary Ambulance	700	88	Photographic Chemist	292	54
Ordnance Noncommissioned Officer.....	815	103	Photographic Chief	945	119
ORDNANCE SUPPLY NONCOMMIS- SIONED OFFICER	815	103	Photographic Darkroom Man	945	119
Ordnance Supply Technician (AAF)	815	103	Photographic Equipment Maintenance Man...	042	24
Organist	442	63	Photographic Laboratory Chief	945	119
Orientation Specialist	274	52	Photographic Laboratory Supervisor	945	119
ORTHOPEDIC MECHANIC	366	58	PHOTOGRAPHIC LABORATORY TECH- NICIAN	945	119
Oven Fireman	590	76	PHOTOLITHOGRAPHER	107	32
Oxyacetylene Welder	256	49	Photostat Operator or Blueprinter.....	028	22
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Packer, Air	967	123	PHYSICAL THERAPY TECHNICIAN.....	072	28
PACKER, ANIMAL	712	89	PHYSICS LABORATORY ASSISTANT.....	160	39
Pack Artillery Gun Crewman	1531	125	Piccolo Player	437	62
PACK DRIVER	565	73	Pigeon Trainer	560	73
Packer, High Explosives	901	112	PIGEONEER	560	73
Packing Case Maker	050	25	Piling Foreman	459	64
PACKMASTER	713	90	Pilot, Airplane	770	98
Painter (AAF)	144	38	Pilot, L Boat	547	71
Painter, Automobile	144	38	Pilot, Liaison	772	98
PAINTER, GENERAL	144	38	Pilot, Service	773	98
PAINTER, SIGN	145	38	PIONEER	729	91
			Pipe Fitter	164	39
			Pipe Fitter, Railway	164	39
			Pipe-line Construction Foreman	059	26
			Pipe-line Foreman, Dredge	116	34
			Pipe-line Patrolman	522	69
			Planer Operator	302	55

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Planting Detail	722	90	RADAR MECHANIC BOMBARDMENT ...	867	111
Planting Port Detail	722	90	RADAR MECHANIC (GCA)	863	110
Planting Starboard Detail.....	722	90	RADAR MECHANIC (GEE)	860	110
Platoon Sergeant (<i>see par. 10c, sec. I</i>)..			RADAR MECHANIC, GROUND EQUIP-		
PLAYWRIGHT	288	53	MENT (DESIGNATED SET)	775	98
Plotter, Aircraft Warning	510	67	RADAR MECHANIC, GROUND LORAN ..	948	120
Plotter, Coast Artillery	724	91	RADAR MECHANIC (IFF)	862	110
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PODIATRIST	422	61	RADAR MECHANIC, TROOP CARRIER ..	849	109
Policeman, Military	677	86	RADAR OBSERVER-MECHANIC, BOM-		
Policeman, Military, Occupied Territory....	669	85	BARDMENT	2867	129
PONTONEER	817	103	RADAR OBSERVER, SEA SEARCH	866	111
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Portable Power Generator Operator, Antiair-			NATED MODEL)	842	107
craft Artillery, Automatic Weapons.....	601	77	RADAR OPERATOR, AN/TPT (DESIG-		
Portable Power Generator Operator, Antiair-			NATED MODEL)	843	107
craft Artillery, Automatic Weapons, Radar..	514	68	RADAR REPAIRMAN, AIRBORNE EQUIP-		
Portable Power Generator Operator, Search-			MENT (DESIGNATED SET)	955	121
light	763	97	RADAR REPAIRMAN, AN/TPT (DESIG-		
PORTABLE POWER GENERATOR RE-			NATED MODEL)	974	124
PAIRMAN	506	67	RADAR REPAIRMAN, GUNLAYING		
Portrait Photographer	152	38	EQUIPMENT (DESIGNATED SET)	952	121
POSTAL CLERK	056	26	RADAR REPAIRMAN, REPORTING		
Power Generator Operator, Portable	846	108	EQUIPMENT (DESIGNATED SET)	953	121
Power Generator Operator, Searchlight	763	97	Radiator Repairman, Automobile	201	44
Power Lineman	165	39	Radio Dispatcher, Police	677	86
Power Plant Electrician	258	49	Radio Electrician	648	83
Power Plant Installer	166	40	Radio Inspector (<i>see appropriate Radio Repair</i>		
Power Plant Mechanic, Airplane	684	87	<i>Specialists</i>)..		
POWER SHOVEL OPERATOR	064	27	RADIO INTELLIGENCE CONTROL CHIEF	543	71
POWER TURRET AND GUNSIGHT			Radio Intelligence Control Technician (AAF)	543	71
MECHANIC	678	87	RADIO MECHANIC, ARMY AIR FORCES.	754	95
POWER TURRET AND GUNSIGHT			RADIO MECHANIC, ARMY AIRWAYS		
REPAIRMAN	681	87	COMMUNICATIONS SYSTEM	778	99
POWERHOUSE ENGINEER	077	29	RADIO MECHANIC, PQ TARGET AIR-		
POWERMAN	166	40	PLANE	993	124
Pressman, Job	169	40	RADIO OPERATOR, ARMY AIRWAYS		
Pressman, Lithographic	167	40	COMMUNICATIONS SYSTEM	760	96
PRINTER	168	40	RADIO OPERATOR, ARMY AIR FORCES.	756	95
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Projector Repairman	206	44	SYSTEM	759	96
Proofreader	055	25	Radio Operator, Fixed Station	777	99
Propeller Mechanic	687	88	RADIO OPERATOR, HIGH SPEED,		
PROSTHETIC DENTAL SUPPLY CLERK... ..	847	108	AUTOMATIC	777	99
Provost Sergeant	677	86	RADIO OPERATOR, HIGH SPEED,		
PSYCHIATRIC SOCIAL WORKER.....	263	50	MANUAL	766	97
Psychological Assistant	289	54	RADIO OPERATOR, INTERMEDIATE		
Public Relations Writer	274	52	SPEED	740	93
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Pump Station Operator	220	46	RADIO OPERATOR AND MECHANIC,		
Pumping Equipment Repairman, Petroleum..	487	66	ARMY AIR FORCES	2756	128
Pumpman, Oil	220	46	RADIO OPERATOR-MECHANIC-GUNNER,		
Pumpman, Water	220	46	ARMY AIR FORCES	757	95
Punch and Shear Operator.....	030	23	Radio Program Supervisor	442	63
PURCHASING AGENT	371	59	RADIO REPAIRMAN	648	83
			RADIO REPAIRMAN, AIRCRAFT		
			EQUIPMENT	647	82
Quartermaster	065	27	RADIO REPAIRMAN, FIXED STATION ..	649	83
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RADIO REPAIRMAN, AN/MRQ (DESIGNATED MODEL)	1648	126	Reel Unit Operator	641	82
RADIO REPAIRMAN, SINGLE CHANNEL TELETYPE	792	100	REFRIGERATION MECHANIC	322	56
RADIO REPAIRMAN, VERY HIGH FREQUENCY	951	121	Refueling Unit Operator	932	118
Radio Sergeant	542	71	Rehabilitation Counselor	262	50
Radio Target Boat Coxswain	703	89	REMOTE CONTROL TURRET MECHANIC	960	122
Radio Telephone Operator, Reconnaissance Car	733	92	REMOTE CONTROL TURRET MECHANIC-GUNNER	580	75
RADIO TELETYPE MECHANIC.....	868	111	REMOTE CONTROL TURRET REPAIRMAN	575	74
Radio Tender, Amphibian Tank	3736	129	Renovator, Ammunition	949	120
Radio Tender, Antitank	610	79	Repairman, Airplane Engine	762	97
Radio Tender, Light Tank	1736	126	Repairman, Airplane and Engine Electrical Accessories	958	122
Radio Tender, Medium Tank	2736	128	Repairman, Airplane Mechanical Instrument..	959	122
Radio Tender, Reconnaissance Car	733	92	Repairman, Automatic Pilot and Bombsight..	574	74
Radiology Technician (AAF).....	264	51	Repairman, Automotive (AAF)	965	122
RADIOSONDE OPERATOR	942	119	Repairman, Balloon Envelope	619	80
Railway Brake Inspector	048	25	Repairman, Bombsight and Automatic Pilot..	574	74
Railway Brakeman	033	23	Repairman, Canvas Cover.....	044	24
Railway Car Carpenter	046	24	Repairman, Carburetor, Airplane	956	121
Railway Car Distributor	047	25	Repairman, Control System, Heavy Antiaircraft Artillery	919	116
Railway Car Mechanic	048	25	Repairman, Cryptographic (Designated Equipment)	801	101
Railway Conductor	058	26	Repairman, Director, Electrical, Heavy Antiaircraft Artillery	899	112
Railway Dispatcher	069	27	Repairman, Electric Motor	304	55
Railway Draftsman	071	28	Repairman, Electrical Accessories, Airplane and Engine	958	122
Railway Installer-Repairman	238	48	Repairman, Fire Control, Light Antiaircraft Artillery	918	115
Railway Locomotive Mechanic, General.....	112	33	Repairman, Fuel Induction	926	117
Railway Mechanic, General	114	34	Repairman, Fuel Cell	665	85
Railway Mechanic, General (Car)	048	25	Repairman, Gas Mask	609	79
Railway Section Hand	199	43	Repairman, Gyro Instrument, Airplane.....	961	122
Railway Shop Dispatcher	205	44	Repairman, Height Finder	921	116
Railway Shop Engineer	205	44	Repairman-Installer, Switchboard, Manual ...	232	47
Railway Signal Mechanic	181	41	Repairman-Installer, Telephone and Telegraph	097	31
RAILWAY SIGNAL OPERATOR	185	41	Repairman, Instrument, Electrical	338	57
Railway Signal Supervisor	181	41	Repairman, Instrument, Fire Control	922	116
Railway Station Agent	236	47	Repairman, Leather	609	79
Railway Storekeeper, Chief	769	98	Repairman, Mechanical Director, Heavy Antiaircraft Artillery	917	115
Railway Switchman	033	23	Repairman, Optical Instrument	962	122
Railway Towerman	185	41	Repairman, Parachute	620	80
Railway Traffic Man	047	25	Repairman, Petroleum Pumping Equipment..	487	66
Railway Transportation Noncommissioned Officer (see par. 10c, sec. I).			Repairman, Portable Power Generator.....	506	67
Railway Yard Foreman	265	51	Repairman, Power Turret and Gunsight.....	681	87
Range Section Noncommissioned Officer, Antiaircraft	527	69	Repairman, Radar, Airborne Equipment (Designated Set)	955	121
RANGE SECTION OPERATOR, ANTIAIRCRAFT	1645	125	Repairman, Radar, AN/TPT (Designated Model)	974	124
RANGE SECTION OPERATOR, COAST ARTILLERY	724	91	Repairman, Radar, Gunlaying Equipment (Designated Set)	952	121
Range Setter, Coast Artillery.....	608	78	Repairman, Radar, Reporting Equipment (Designated Set)	953	121
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Reader, Coast Artillery Observation Station...	578	75	Repairman, Radio, Aircraft Equipment	647	82
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Receiving and Shipping Checker.....	835	106	Repairman, Radio, AN/MRQ (Designated Model)	1648	126
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Reconnaissance Car Commander	733	92	Repairman, Remote Control Turret	575	74
RECONNAISSANCE CAR CREWMAN.....	733	92	Repairman, Supercharger, Airplane	964	122
Reconnaissance Noncommissioned Officer.....	761	96	Repairman, Tabulating Machine	425	62
Reconnaissance or Scout Car Driver.....	733	92			
Record Clerk	055	25			
Recorder, Coast Artillery Observation Station.	578	75			
Recorder, Sound, Field Artillery	836	106			
Recording Equipment Maintenance Man, Sound	207	45			

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Reporter	274	52	SHEET METAL WORKER.....	201	44
Retouching Artist, Photographic	945	119	Sheet Metal Worker, Airplane.....	555	72
Rifle Noncommissioned Officer	745	94	Ship Carpenter	202	44
Rifle Noncommissioned Officer, Automatic ...	746	94	SHIP FITTER	478	65
RIFLEMAN	745	94	Shipping Clerk	835	106
Rifleman, Automatic	746	94	Shoe Repair Superintendent.....	530	70
RIGGER	189	42	SHOE REPAIRMAN	204	44
Rigger, Balloon	619	80	SHOP CLERK	457	64
Riveter, Pneumatic	100	31	SHOP ENGINEER, RAILWAY	205	44
Road Foreman, Engine, Assistant	110	33	SHOP MAINTENANCE MECHANIC	341	57
Road Grader Operator	359	58	Sign Painter	145	38
Rock Crusher Operator	359	58	SIGNAL MECHANIC, RAILWAY	181	41
Rocket Launcher	745	94	Signal Noncommissioned Officer.....	542	71
RODMAN AND CHAINMAN, SURVEYING. 191	42	42	Signal Operator, Railway.....	185	41
			SIGNAL SUPPLY TECHNICIAN.....	581	75
			Signalman, Visual	765	97
			Single Channel Teletype Radio Repairman....	792	100
			Skier (Use appropriate Military Occupational Specialty).		
			SMALL ARMS WEAPONS MECHANIC ...	903	112
SADDLE AND HARNESS MAKER.....	192	42	SMALL BOAT OPERATOR	118	35
Safety Engineer, Petroleum Products	486	66	Smoke Generator Noncommissioned Officer....	731	91
SAFETY INSPECTOR	486	66	SMOKE GENERATOR OPERATOR.....	731	91
SALES CLERK	373	59	Snare Drummer	435	62
Salvage Diver	454	63	Social Worker, Psychiatric	263	50
Salvage Inspector	194	43	Soils Technician	160	39
Salvage Man	194	43	SOUND CUTTER, MOTION PICTURE.....	287	53
Salvage Master	454	63	SOUND EDITOR, MOTION PICTURE.....	287	53
Salvage Noncommissioned Officer	194	43	Sound Mixer, Motion Picture	407	60
SALVAGE REPAIR NONCOMMISSIONED OFFICER	530	70	SOUND PROJECTOR REPAIRMAN	206	44
SALVAGE TECHNICIAN	194	43	Sound Ranging Chief	586	76
Salvage Technician, Bomb	924	117	SOUND RANGING OBSERVER	586	76
SANITARY TECHNICIAN	196	43	SOUND RECORDER, FIELD ARTILLERY. 836	106	106
Sawmill Foreman	459	64	SOUND RECORDER, MOTION PICTURE..	208	45
SAWMILL MACHINE OPERATOR.....	459	64	SOUND RECORDING EQUIPMENT MAIN- TENANCE MAN	207	45
Sawmill Millwright	464	64	Sound Transmission Electrician	415	61
Saxophone Player	439	62	SPECIAL ASSIGNMENT	564	73
SCOUT	761	96	Special Effects Supervisor	449	63
Scout Car Commander	733	92	Special Service School Instructor.....	659	84
Scout Car Crewman	733	92	SPECIAL VEHICLE OPERATOR	932	118
Scout, Motorcycle	378	59	Spotter, Coast Artillery Observation Station..	578	75
Script Writer	288	53	Squad Leader (See par. 10c, sec. I).		
SEACOAST GUN DATA COMPUTER	572	74	Stable Orderly	590	76
SEAMAN	065	27	STABLE SERGEANT	710	89
SEAMAN, LANDING CRAFT	838	106	Station Agent, Railway	236	47
Searchlight Control Chief	946	120	STATIONARY ENGINEER	082	29
SEARCHLIGHT CREWMAN	763	97	STATIONARY FIREMAN	084	30
SEARCHLIGHT ELECTRICIAN	635	82	Statistical Clerk	055	25
Searchlight Operator	763	97	Steam Locomotive Engineer	110	33
Searchlight Master Gunner	832	105	Steamfitter	164	39
SEARCHLIGHT NONCOMMISSIONED OFFICER	946	120	Steel Worker, Structural	100	31
Section Foreman, Railway	199	43	STENOGRAPHER	213	45
SECTION HAND, RAILWAY	199	43	Stenotypist	213	45
Section Leader (see par. 10c, sec. I).			Sterilization and Bath Foreman	706	89
Security Intelligence Agent	301	55	Sterilization Operator	706	89
Security Intelligence Special Agent	301	55	Sterilizer Operator, Chief	103	32
Security Noncommissioned Officer	745	94	Stevadore Foreman	271	51
Security Noncommissioned Officer, Automatic Rifle	746	94	Steward	819	103
Senior Technical Instructor	659	84	Steward, Commissary	819	103
Sergeant Major	502	67	STILL OPERATOR	479	66
SERVICE PILOT	773	98	Stillman	479	66
Serviceman, Automobile	316	55	Stillman Helper	479	66
Serviceman, Construction Equipment (AAF). 316	55	55	Stock Clerk	835	106
Serviceman, Office Machine	282	52	Stock Control Clerk	835	106
SERVO MECHANIC, PQ TARGET AIR- PLANE	994	124	Stock Record Clerk	835	106
SEWING MACHINE OPERATOR	200	44			

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	SSN	Page		SSN	Page
STONEMASON	214	45	Tank Gunner, Amphibian	3736	129
Storage Battery Electrician	078	29	Tank Gunner, Light	1736	126
Storekeeper, Chief, Railway	769	98	Tank Gunner, Medium	2736	128
Structural Draftsman	074	28	TANK MECHANIC, MINOR MAINTENANCE		
STRUCTURAL STEEL WORKER	100	31	NANCE	660	84
STUDENT	629	81	Tank Mechanic, Suspension and Power Train	908	113
SUBMARINE CABLE STATION OPERATOR	209	45	Target Airplane Servo Mechanic, PQ	994	124
SUBMARINE CABLE STATION TECHNICIAN	197	43	Target Airplane Motor Mechanic	014	21
SUBMARINE MINE LOADER	656	83	Target Airplane Parachute Packer	522	69
SUBMARINE MINE PLANTER	722	90	Target Airplane Radio Mechanic, PQ	993	124
Submarine Mine Supply Maintenance Man	714	90	Target Airplane Radio Repairman	647	82
SUBSISTENCE NCO	820	104	TEAMSTER	235	47
SUBSTATION ELECTRICIAN	258	49	Technical Inspector (Third and Fourth Echelon Repair)	925	117
SUBSTATION OPERATOR	184	41	Technical Instructor (Army Air Forces)	659	84
Superintendent, Canvas Repair	530	70	Technical Supply Clerk	826	105
Superintendent, Classifier, Salvage	194	43	Technical Supply Noncommissioned Officer	826	105
Superintendent, Fumigation and Bath	591	76	Technical Writer	274	52
Superintendent, Labor	356	58	TELEGRAPH OPERATOR	236	47
Superintendent, Shoe Repair	530	70	Telegraph Printer Operator	237	47
Superintendent, Waste Disposal	194	43	Telephone and Telegraph Cable Splicer	039	24
SUPPLY CLERK	835	106	Telephone and Telegraph Equipment Repairman (AAF)	095	31
Supply Noncommissioned Officer	821	104	Telephone Equipment Installer-Repairman, Local Battery	097	31
Supply Noncommissioned Officer, Medical	825	104	Telephone and Telegraph, Installer-Repairman	097	31
Supply Noncommissioned Officer, Ordnance	815	103	Telephone and Telegraph Installer, Toll	384	59
Supply Technician, Army Air Forces	826	105	Telephone and Telegraph Lineman	238	48
Supply Technician, Quartermaster	821	104	Telephone and Telegraph Wire Chief	261	50
Supply Technician, Engineer	583	76	Telephone Insideman	095	31
Supply Technician, Signal	581	75	Telephone Inspector	261	50
SURGICAL TECHNICIAN	861	110	TELEPHONE OPERATOR	309	55
Surgical Technician, Veterinary	250	49	Telephone Operator, Field	650	83
SURVEY AND INSTRUMENT MAN	228	46	Telephone Operator, Range, Coast Artillery	578	75
SURVEY AND INSTRUMENT NONCOMMISSIONED OFFICER, FIELD ARTILLERY	577	74	Telephone Repeaterman	187	41
SURVEYOR	227	46	TELEPHONE SWITCHBOARD OPERATOR	650	83
Surveyor, Party Chief	230	47	TELETYPE MECHANIC	239	48
SURVEYOR, TOPOGRAPHIC	230	47	Teletype Mechanic, Radio	868	111
Switchboard Installer, Manual, Telephone and Telegraph	232	47	TELETYPE OPERATOR	237	47
SWITCHBOARD INSTALLER-REPAIRMAN, MANUAL	232	47	Teletype Technician-Weather Observer	790	100
Switchboard Operator, Central Office	309	55	Teletypewriter Switchboard Operator	237	47
Switchboard Operator, Field	650	83	Terminal Operator Assistant, Petroleum Products	485	66
Switchboard Operator, Flash	576	74	Terminal Supervisor, Petroleum Products	485	66
Switchboard Operator, Generator	092	30	Theodolite Observer	784	99
Switchman, Railway	033	23	THIRD RAIL REPAIRMAN	281	52
			Timber Cruiser	466	65
			Tinsmith	201	44
			TIRE REBUILDER	240	48
			Toll Telephone and Telegraph Installer	384	59
			Tool Dresser	024	22
			Tool Designer	114	34
			Tool Maker	114	34
			TOOLROOM KEEPER	242	48
			Topman	479	66
			Topographic Draftsman	076	23
			Topographic Surveyor	230	47
			Topographical Computer	243	48
			Torpedo Mechanic, Aerial	662	84
			TOW TARGET REEL OPERATOR	688	88
			Towerman, Railway	185	41
			Toxic Gas Guard	786	99
			TOXIC GAS HANDLER	786	99
			Toxicologist	292	54
			Tracer	070	27
			Tracker, Coast Artillery Observation Station	578	75
			Tractor Driver	931	118

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	SSN	Page		SSN	Page
Tractor Driver, Amphibian	732	92	Wagoner	235	47
Tractor Mechanic	319	56	Walking Boss	271	51
Tractor Mechanic (Diesel)	013	21	Ward Attendant	657	84
Traffic Analyst, E	709	89	Ward Noncommissioned Officer	673	86
TRAFFIC ANALYST, G	6709	130	Warehouse Foreman	252	49
TRAFFIC ANALYST, J	8709	130	Warehouseman	188	42
TRAFFIC ANALYST (RADIO)	709	89	Washman, Laundry	103	32
TRAFFIC MAN, RAILWAY	047	25	Watch or Clock Inspector	381	59
Traffic Patrolman	677	86	WATCH REPAIRMAN	381	59
Trailer Truck Driver	932	118	Watchmaker	381	59
Train Crewman (Designated Type) Army Air Forces	033	23	Watchman	522	69
Trainer, Dog	458	64	Water Pumpman	220	46
Trainer, Horse	093	30	Water Supply Engineer	727	91
Trainmaster, Assistant	265	51	Water Supply Foreman	727	91
TRANSLATOR	267	51	Water Supply Man	727	91
Transmission Man, Sound (Electrician).....	415	61	WATER SUPPLY TECHNICIAN	727	91
TRANSMITTER ATTENDANT, FIXED STA- TION	798	101	Water Tender	590	76
Transportation Noncommissioned Officer, Motor	014	21	Weapons Mechanic, Aircraft	903	112
Transportation Technician, Air	967	123	Weapons Mechanic, Hand and Shoulder.....	903	112
Trombonist	440	62	Weapons Repairman, Small-Arms	903	112
Truck Driver, Amphibian	934	118	Weather Cryptographer	784	99
TRUCK DRIVER, HEAVY	931	118	WEATHER EQUIPMENT TECHNICIAN... ..	782	99
TRUCK DRIVER, LIGHT	345	57	WEATHER FORECASTER	787	100
Truckmaster, Heavy Trucks	931	118	Weather Instrument Technician, Non-Electrical	098	31
Truckmaster, Light Trucks	345	57	WEATHER OBSERVER	784	99
Trumpet Player	433	62	WEATHER OBSERVER-TELETYPE TECH- NICIAN	790	100
Tuba Player	441	62	Weather Station Chief, Forecasting	787	100
Tumblerman, Laundry	103	32	Weather Station Chief, Observation	784	99
Turret Mechanic	907	113	Welder, Acetylene	256	49
Turret Repairman, Remote Control	575	74	WELDER, AIRCRAFT	573	74
Typist	405	60	WELDER, ARMOR PLATE	923	116
Typist-Clerk, Finance	623	80	WELDER, COMBINATION	256	49
			Welder, Electric Arc.....	256	49
			WELL DRILLER	259	50
			Winch Mechanic	081	29
			WINCH OPERATOR	473	65
			WIRE CHIEF, TELEPHONE AND TELE- GRAPH	261	50
			WIRE REPAIRMAN, VERY HIGH FREQUENCY	950	120
			Wire Sergeant	542	71
			Wire Technician, Telephone and Telegraph (AAF)	261	50
			Woodworker, Airplane	550	72
			WOODWORKING MACHINE OPERATOR.. ..	113	33
			WRECKER CREWMAN	529	69
			Wrecker Operator	529	69
			Wreckmaster	205	44
			WRITER, MILITARY SUBJECTS	274	52
			Writer, Script	288	53
			X		
			X-RAY TECHNICIAN	264	51
			Y		
			Yard Foreman	265	51
			YARDMASTER	265	51

Appendix I

Conversion of Deleted Specification Serial Numbers

TABLE I. Table of SSN's deleted or changed

This table contains a listing of Specification Serial Numbers (SSN) which appeared in AR 615-26, dated 15 September 1942 and its supplements which have been deleted from this manual or have been retained in this manual because they are required in certain Tables of Organization but are convertible to more appropriate SSN's in other Tables of Organization.

Where a deleted SSN is convertible to only one SSN, the SSN to which it is convertible is included in table I.

Where an SSN has been deleted and is convertible to more than one SSN or has been retained but falls within the scope outlined above, reference is made to and conversion is listed in table II, excepting where otherwise indicated. (Asterisk (*) indicates SSN's published previous to publication of AR 615-26, 15 September 1942).

SSN deletions and changes	Substitute SSN						
001	Obsolete*	172	201	337	2	488	522
003	Obsolete*	174	648	339	188	489	522
005	See table II	177	See table II	340	620	500	Obsolete
006	Obsolete*	178	Obsolete*	343	256	501	405
007	Obsolete*	179	Obsolete*	344	345	503	See table II
008	Obsolete*	180	See table II	349	189	504	See table II
009	Obsolete*	183	205	350	055	505	See table II
011	Obsolete*	186	835	351	Obsolete*	507	590
012	1	190	100	353	188	508	Obsolete*
021	Obsolete*	193	194	355	055	512	510
025	024	195	835	357	316	513	750
026	024	198	199	360	063	515	510
027	Obsolete*	203	050	367	590	516	510
029	030	210	Obsolete*	368	405	517	510
032	302	211	See table II	370	055	519	144
036	035	212	055	372	359	520	170
038	See table II	215	See table II	374	835	523	Obsolete*
040	201	225	Obsolete*	377	070	524	Obsolete*
049	Obsolete*	226	250	385	166	525	535
051	Obsolete*	231	115	386	442	530	Obsolete*
052	502	233	033	388	Obsolete*	531	See table II
054	213	241	114	390	055	532	733
062	590	244	See table II	391	055	534	405
068	Obsolete*	245	931	399	274	536	See table II
083	727	247	405	402	152	537	650
086	114	248	See table II	403	261	539	See table II
087	024	253	727	408	Obsolete*	540	650
088	129	254	727	410	See table II	541	035
089	095	255	256	412	114	544	763
090	024	257	256	413	3	545	236
101	302	266	055	414	926	549	555
105	405	268	055	416	055	551	Obsolete
106	168	269	373	418	See table II	553	958
109	107	273	Obsolete*	428	289	554	555
119	118	278	Obsolete*	443	301	556	114
123	Obsolete*	284	442	444	677	557	925
124	Obsolete*	291	Obsolete*	445	301	558	See table II
125	See table II	295	Obsolete*	446	677	562	Obsolete
126	787	298	275	447	677	567	647
127	342	299	238	450	060	568	647
133	042	300	114	453	449	569	014
139	See table II	303	657	460	459	570	522
140	112	307	301	461	462	584	502
143	144	310	188	463	462	585	See table II
147	620	311	Obsolete*	465	466	587	576
153	107	314	See table II	467	081	588	Obsolete*
154	945	315	188	468	271	589	Obsolete
155	152	317	168	469	271	592	See table II
157	945	318	168	471	271	595	641
161	Obsolete*	323	835	472	271	601	See table II
162	164	324	835	474	271	602	See table II
163	164	333	Obsolete*	475	271	603	See table II
171	Obsolete*	334	256	476	477	604	See table II

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SSN deletions and changes	Substitute SSN						
606	See table II	705	Obsolete*	813	014	935	502
607	See table II	707	Obsolete*	816	502	936	405
608	See table II	708	762	818	See table II	937	4
613	See table II	711	713	827	182	943	945
616	See table II	716	Obsolete*	828	184	944	945
618	619	717	719	829	231	947	4
621	620	718	719	830	258	954	955
626	Obsolete	720	550	831	401	963	687
627	4	721	667	840	838	971	590
628	4	723	Obsolete*	846	See table II	972	687
632	See table II	725	724	857	5	998	502
636	See table II	726	See table II	864	Obsolete*	1070	1076
637	097	728	301	865	859	⁶ 1345	345, 610
638	097	730	677	871	See table II	1539	1531
640	237	734	See table II	872	953	1601	601
643	Obsolete*	736	See table II	874	237	1712	1531
644	641	741	650	875	542	1733	733
645	See table II	742	See table II	876	238	1734	1607
646	095	743	See table II	877	674	² 2244	844, 931
651	See table II	744	761	878	766	² 345	345, 844
652	See table II	749	747	879	239	2531	844
653	See table II	751	750	880	237	2610	1736
654	Obsolete	752	750	881	648	2645	1645
655	Obsolete	753	722	882	510	³ 244	844, 931
661	660	755	756	883	Obsolete	³ 245	844, 931
663	5	758	687	884	866	³ 345	345, 607
664	5	764	542	885	866	3531	844
666	657	767	See table II	886	850	⁴ 244	845, 931
668	See table II	769	See table II	887	854	⁴ 245	845, 931
672	250	771	559	888	862	4531	845
675	See table II	774	514	889	854	⁵ 244	845, 931
676	667	779	784	890	Obsolete	5531	845
679	378	780	See table II	891	851	⁶ 244	845, 931
680	656	781	590	892	852	⁶ 245	845, 931
682	6	783	Obsolete*	895	860	6531	845
690	See table II	785	710	896	853	⁸ 244	845, 931
693	578	788	784	898	5	⁸ 245	845, 931
694	578	789	784	900	901	8531	845
695	590	793	Obsolete*	902	903	8605	7
696	657	794	Obsolete*	904	903	8610	1736
697	590	795	See table II	910	909	⁸ 733	610, 733
698	Obsolete	800	804	916	914	⁸ 734	610, 733
699	345	801	Obsolete*	920	918	8736	1736
701	641	806	667	928	014	8745	7
702	118	810	See table II	929	345	9345	1531
704	See table II	811	610	930	014	9513	1531
						9531	844

¹ 014—1st and 2d echelon, 912—3d, 4th, and 5th echelon.

² 014—1st and 2d echelon, 337—3d, 4th, and 5th echelon.

³ 014—1st and 2d echelon, 413—3d, 4th, and 5th echelon.

⁴ See par. 16(b), section I.

⁵ See Army Air Forces Manual 35-1.

⁶ One or the other conversion listed in the right-hand column, will be

TABLE II. Table of organization SSN's deleted or changed including authorized substitutions.

This Table contains a list of Tables of Organization by arm and service, by T/O number, showing the SSN's deleted or changed, together with the appropriate SSN's to be used in the respective T/O's. As revisions of T/O and E's appear, deletions or substitutions of SSN's should be made to conform with the conversions below. Example: Platoon Ser-

T/O and T/O & E	Date	Line	Column	SSN deletions and changes	Substitute SSN
<i>Adjutant General's Department</i>					
12-317.....	5/29/43	13	.....	539	400
		14	.....	539	502
		15	.....	539	502
		17	.....	539	502
		18	.....	539	502
12-601.....	2/8/44	18	.....	585	520

used to report trainee from RTC; the SSN selected depending on the one which indicates trainee's higher skill. For example, in the case of an RTC trained 4245, trainee will be reported as a Heavy Truck Driver (SSN 931) or a Gun Crewman, Heavy Artillery (845), whichever is appropriate.

⁷ See par. 16(a), section I.

geant (SSN 651) has been deleted by SSN only. Where this SSN (651) appears in table I, there is included a reference as follows: "See table II." Before reference is made to table II, first determine the particular T/O involved, then turn to the appropriate arm or service in part II and locate the appropriate T/O number listed therein. The proper SSN to be used will be listed by T/O line and column number.

T/O and T/O & E	Date	Line	Column	SSN deletions and changes	Substitute SSN
12-327.....	1/23/43	16	.....	668	931
<i>Airborne</i>					
71-1.....	9/5/42	40	.....	636	055
71-2.....	9/5/42	13	.....	585	502
<i>Antiaircraft Artillery and Barrage Balloon</i>					
44-1-1S....	12/28/42	13	.....	585	502

APPENDIX I

T/O and T/O & E	Date	Line	Column	SSN deletions and changes	Substitute SSN	T/O and T/O & E	Date	Line	Column	SSN deletions and changes	Substitute SSN
		25		177	740	44-116	11/16/43	11		585	502
		57		177	740			33		636	518
		58		177	740			60		636	518
		59		177	776	44-117	11/16/43	6		585	2601
44-7	2/28/44	10		585	510			8		539	527
44-10-1	11/10/43	14		585	502			10		602	2601
		26		668	345			16		602	2601
44-10-2S	7/3/43	10		585	502			20		505	2601
		26		504	814			22		601	2601
		35		503	761			23		606	605
44-12	11/10/43	13		585	502			31		504	2601
		47	6	675	345-2			33		531	2601
					667-1			40		592	2601
		48		636	518			41		601	2601
44-16	11/10/43	12		585	502			49		636	518
		33		636	518			50		846	514
		61		636	518			55		704	650
44-17	11/10/43	6		585	2601	44-126	11/16/43	11		585	502
		8		539	527			29		668	345
		10		602	2601			39		504	901
		17		602	2601			57		636	518
		21		505	2601	44-127	9/30/43	6		585	601
		23		601	2601			9		651	601
		32		504	2601			12		539	527
		34		531	2601			25		531	601
		43		592	2601			31		606	601
		44		601	2601			36		636	518
		53		636	518			42		704	650
		55		846	514	44-136	9/30/43	12		585	502
		60		704	650			54		636	518
44-26	9/30/43	11		585	502	44-138	9/30/43	6		585	946
		31		636	631			13		651	946
		36		504	901			41		846	514
		56		636	518			50		704	650
44-27	9/30/43	6		585	601			51		742	763
		10		651	601	44-217	8/20/43	6		585	605
		13		539	527			9		651	605
		25		531	601			15		653	605
		32		606	601	44-226S	11/24/43	11		585	502
		39		636	601			32		636	518
		45		704	650			37		504	901
44-75	6/15/43							56		636	518
Med. Det p.3		12		734	931	44-227S	11/24/43	6		585	601
44-76	6/15/43	11		585	502			9		651	601
		46		734	931			12		539	527
		51		636	518			25		539	601
		55	4	695	345			30		606	601
			6		667			35		636	518
			7		345			36		645	1645
44-77	6/15/43	6		585	598			41		704	650
		11	6	651	3601	44-312	6/11/43	12		585	502
			10	651	597			14		539	502
		15	7	652	3601			24		668	345
			11	652	597			45		675	345
		18	7	653	3601			46		704	650
			8	653	3601			47		177	740
			11	653	597			48		177	740
			12	653	597	44-316	6/11/43	11		585	502
		25		531	3601			20		780	787
		29	4	734	931			71		675	345
			6	734	931			79		704	650
			7	734	3601	44-317	6/11/43	7		585	526
			8	734	3601			13		651	526
			10	734	931			16		653	526
			11	734	597			40		675	345
			12	734	597			43		360	526
		32	7	601	3601			44		360	526
			8	601	3601	44-326	6/23/43	10		585	502
			11	601	597	44-327	6/23/43	7		585	526
			12	601	597			13		651	526
		33	6	606	605			19		653	526
			10	606	597	44-476T	1/21/44	10		585	502
			11	606	597			35		675	055
			12	606	597			40		704	650

MILITARY OCCUPATIONAL CLASSIFICATION OF ENLISTED PERSONNEL

T/O and T/O & E	Date	Line	Column	SSN deletions and changes	Substitute SSN	T/O and T/O & E	Date	Line	Column	SSN deletions and changes	Substitute SSN
44-477T.....	1/21/44	5	.....	585	605			48	.....	734	931
		8	.....	651	605			49	.....	736	1736
		12	.....	652	605			50	.....	736	1736
		15	.....	606	605			54	.....	616	1736
		25	.....	606	605			58	.....	675	345
		26	.....	675	055			59	7	675	761
		27	.....	177	740				9	675	667
<i>Armored Command</i>						17-26.....	9/15/43	10	.....	585	502
17-2.....	9/15/43	13	.....	585	502			18	8	651	761
		19	.....	651	610				9	651	1607
		20	.....	652	1736				12	651	2736
		26	.....	653	610			21	.....	539	2736
		27	.....	795	1736			25	.....	653	1607
		30	.....	410	345			28	.....	616	2736
		39	.....	531	610			37	.....	531	2736
		47	3	734	931			45	3	734	931
			8	734	931				5	734	931
			9	734	931				8	734	931
			10	734	931				9	734	1607
			12	734	610				10	734	1607
				736	1736				12	734	931
		48	.....	736	1736				15	734	931
		49	.....	736	1736			46	.....	736	2736
		53	.....	504	610			47	.....	736	2736
17-16.....	11/12/43	10	.....	585	502			50	.....	604	2736
		18	8	651	761			53	10	504	1607
			9	651	1607				14	504	901
			12	651	1736			58	.....	675	345
		21	.....	539	1736			59	3	675	667
		25	.....	653	1607				5	675	345
		28	.....	603	1736				8	675	345-1
		37	.....	531	1736						761-1
		45	3	734	931	17-27.....	9/15/43	6	.....	585	2736
			5	734	931			11	.....	651	2736
			8	734	931			15	.....	795	2736
			9	734	931			17	.....	503	761
			10	734	1607			19	.....	616	2736
			12	734	931			26	.....	531	2736
		46	.....	736	1736			30	.....	736	2736
		47	.....	736	1736			31	.....	736	2736
		50	.....	604	1736			33	.....	604	2736
		52	.....	616	1736	17-29.....	9/15/43	9	.....	585	502
		53	10	504	1607			18	.....	651	345
			11	504	1607			26	.....	410	345
			14	504	1736			45	.....	504	901
			15	504	1736	17-56.....	1/15/44	12	.....	585	502
		58	.....	675	345			23	8	651	761
		59	3	675	667				9	651	1531
			5	675	345			29	.....	652	1531
			8	675	345			30	.....	795	1736
17-17.....	9/15/43	6	.....	585	1736			33	.....	603	1531
		11	.....	651	1736			43	.....	531	1531
		15	.....	795	1736			54	.....	736	1736
		18	.....	503	761			55	.....	736	1736
		28	.....	736	1736			58	.....	606	605
		29	.....	736	1736	17-57.....	1/15/44	6	.....	585	1736
		31	.....	604	1736			10	.....	651	1736
		32	.....	616	1736			14	.....	795	1736
17-19.....	11/12/43	9	.....	585	502			21	.....	503	761
		18	.....	651	345			27	.....	736	1736
		26	.....	410	345			28	.....	736	1736
		45	.....	504	901			30	.....	616	1736
17-20-1.....	9/15/43	14	.....	585	502	17-57.....	1/15/44	4	.....	652	1531
		22	.....	651	1736			6	.....	603	1531
		26	.....	795	1736			12	.....	531	1531
		48	.....	734	931			16	.....	606	605
		49	.....	736	1736	17-60-1.....	9/15/43	14	.....	585	502
		50	.....	736	1736			20	.....	651	761
		53	.....	616	1736			22	.....	668	345
		57	.....	675	345			28	.....	410	345
		58	.....	675	667			47	.....	734	931
17-22.....	10/2/43	14	585	502			53	675	345
		22	651	1736			54	675	667
		26	795	1736	17-116.....	1/29/44	26	585	3736

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T/O and T/O & E	Date	Line	Column	SSN deletions and changes	Substitute SSN	T/O and T/O & E	Date	Line	Column	SSN deletions and changes	Substitute SSN
17-117.....	1/29/44	43	795	3736	2-17.....	4/1/42	45	735	931
		63	736	3736			46	735	931
		64	736	3736			48	605	610
		68	616	3736			55	177	740
		9	585	3736			56	177	740
		14	651	3736			57	177	740
		18	795	3736			6	585	1812
		32	736	3736			9	4	651	745
		33	736	3736			7	651	605
		37	810	745			13	8	652	604
		38	810	745			9	652	605
39	.....	616	3736	17	5	653	745			
<i>Army</i>						2-19.....	4/1/42	8	653	604
200-1.....	7/1/42	49 1/4	503	055			9	653	605
200-2.....	7/1/42	14	585	502			24	504	605
<i>Cavalry</i>								6	585	812
2-1.....	4/1/42	42	636	055			9	4	651	605
2-2.....	4/1/42	12	585	502			8	651	1607
		18	4	651	566			14	6	652	605
			5	651	345			10	652	1607
			7	651	710			19	5	653	605
		23	652	345			6	653	605
		27	4	653	566			9	653	1607
			5	653	345	10	.....	653	1607	
			7	653	710	31	.....	607	1607	
		47	.....	675	761	33	.....	607	1607
2-10-1.....	4/1/42	48	.....	177	740	13	.....	585	502
		14	.....	585	502	30	.....	503	345-2
		23	13	651	761		.....		667-1	
			16	651	610	13	.....	734	931	
			17	652	761	12	.....	585	502	
		27	14	652	761	24	.....	668	345	
			17	652	761	35	.....	410	345	
			18	652	610	56	.....	734	931	
		34	14	653	761	59	.....	504	901	
			16	653	745	64	.....	675	345	
			17	653	761	65	.....	675	345-3	
		53	.....	606	605	6	.....	585	733
		61	4	675	345-1	12	.....	651	733	
			.....	.....	745-1	17	.....	652	761
			7	675	761	21	.....	653	761	
			8	675	835	26	.....	503	345-2	
			11	675	667		.....		733-4	
			16	675	761	33	.....	734	931	
		62	.....	177	740	37	.....	504	901
		63	.....	177	740	6	.....	585	1736
2-12.....	4/1/42	64	.....	177	740	12	.....	651	1736
		9	.....	585	502	15	7	539	1736	
		14	11	651	761	8	.....	539	505	
			14	651	610	18	.....	503	761	
			12	652	761	20	.....	603	1736	
			15	652	610	27	.....	531	1736	
		27	12	653	761	31	.....	734	931	
			14	653	610	32	.....	736	1736	
			15	653	610	33	.....	736	1736	
		57	3	675	745	36	.....	504	901	
			6	675	667	6	.....	585	1812	
			7	675	345-1	9	.....	651	1812	
			.....	.....	667-1	13	.....	177	740
			10	675	761	17	.....	177	740	
		58	.....	177	740	18	6	653	604	
		59	.....	177	740	8	.....	653	745
2-13.....	4/1/42	60	.....	177	740	35	.....	177	740
		9	.....	585	502	36	.....	177	740
		16	.....	651	745	37	.....	177	740
		20	8	652	745						
			9	652	345						
			10	652	533						
		23	.....	668	345					
		27	8	653	745						
			9	653	345						
			10	653	533						
<i>Chemical Warfare Service</i>						2-22.....	10/13/43	30	503	345-2
3-26.....	9/7/43	28	503	345						
		38	504	901						
		45	704	650						
		46	704	650						

MILITARY OCCUPATIONAL CLASSIFICATION OF ENLISTED PERSONNEL

T/O and T/O & E	Date	Line	Column	SSN deletions and changes	Substitute SSN	T/O and T/O & E	Date	Line	Column	SSN deletions and changes	Substitute SSN
3-27	9/7/43	6		585	1607			19		536	608
		10		651	1607			21		603	601
		15		653	1607			31	7	531	608
		19		607	1607				8	531	601
		33		504	1607			35		606	601
		38		675	345			44		704	650
3-47	4/1/42	8		651	822	4-68	4/1/42	6		585	946
		10		585	530			12		651	946
		14		651	194			15		539	946
		19		539	194			19		503	055
		22		539	194			46		704	650
		24		653	194	4-69	4/1/42	9		585	722
3-67	10/6/43	8		585	530			16		539	714
		10		769	251			51		704	650
		24		769	251			52		704	650
3-77	3/1/44	8		585	102			57		743	055
3-87	4/27/43	8		585	102	4-72	4/1/42	17		585	502
3-97	7/3/43	11		585	292			62		410	931
		38		675	345			76		704	650
3-117	11/16/43	10		585	502	4-82	4/1/42	17		585	502
		53		675	345			62		410	931
3-217	10/12/43	6		585	502			77		704	650
		10		651	809	4-96	4/1/42	13		585	502
		13		652	809			23		651	946
3-267	7/6/43	6		585	502			24		177	740
		8		539	787			31		539	946
		11		651	731			62		410	931
		14		651	731			80		704	650
		16		652	731	4-104	4/1/42	12		585	502
		18		652	731			14		314	065
		35		675	345			17		314	065
3-417	2/28/42	6		585	786			19		177	740
		9		632	786			25		606	605
3-418	2/28/42	8		585	786			39		606	605
		10		632	786	4-152	12/10/43	14		585	502
		11		632	786			51		675	667
		13		632	786			52		636	518
		33		504	901	4-156	12/10/43	11		585	502
		34		504	901			23		651	946
3-457	7/1/42	6		585	786			34		652	946
		23		928	014			36		503	055
								41		606	605
								66		606	605
								67		504	901
<i>Coast Artillery Corps</i>											
4-46	3/22/43	11		585	502			6		585	845
		21		651	946	4-157	12/10/43	8		602	845
		29		652	946			15		602	845
		32		503	238			23		503	845
		38		653	946			24		505	845
		72		704	309			27		608	845
4-47	3/22/43	6		585	608			28		606	845
		12		539	601			35		531	845
		14		602	608			39		244	735
		18		503	631			42		606	845
		19		505	608			54		704	650
		20		536	608			58		742	578
		22		603	601	4-222	11/1/40	15		585	502
		26		606	601			35		653	566
		33		504	608			55		705	650
		35	7	531	608			56		705	650
			8	531	601	4-232	12/14/43	15		585	502
		41		606	601	4-240-1S	7/3/43	20		668	345
4-50-1S	7/3/43	56		704	309	4-260-1	4/1/42	23		675	590
		17		585	502			24		704	650
		26		668	345			25		704	650
4-62	4/1/42	17		585	502	4-276	9/5/42	29		675	667
		62		410	931			30		177	740
		76		704	650			31		177	740
4-66	4/1/42	9		585	502			32		177	740
		41		704	650	4-277	9/5/42	6		585	601
4-67	4/1/42	6		585	608			9		651	601
		10	7	539	608			11		539	601
			8	539	601			14		603	601
		12		602	608			20		531	601
		18		505	608						

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T/O and T/O & E	Date	Line	Column	SSN deletions and changes	Substitute SSN	T/O and T/O & E	Date	Line	Column	SSN deletions and changes	Substitute SSN	
4-278	9/5/42	25	.....	177	740	5-187	12/29/43	8	.....	585	107
		26	.....	177	740	5-188	12/29/43	42	.....	503	803
		27	.....	177	740	5-189	12/29/43	8	.....	585	230
		6	.....	585	605	5-189	12/29/43	38	.....	503	803
		10	.....	651	605	5-192	7/10/43	8	.....	585	004
		13	.....	606	605	5-192	7/10/43	37	.....	503	803
		23	.....	606	605			13	.....	585	502
								55	.....	675	345
<i>Communications Zone</i>												
600-500	12/26/43	12	.....	585	502	Med. Det.	p. 3				
		22	.....	652	502	5-215	9/15/43	13	.....	734	931
						5-216	9/15/43	13	.....	585	502
								27	.....	651	583
								58	.....	734	931
								67	.....	675	345
								68	.....	675	667
									3	675	345
									5	675	345
						5-217	9/15/43	6	.....	585	502
								10	.....	651	059
								16	.....	653	059
								19	.....	653	059
								36	.....	734	931
						5-226	9/5/42	10	.....	585	502
								39	.....	675	055
								41	.....	177	776
								42	.....	177	776
								43	.....	177	776
						5-227	9/5/42	6	.....	585	059
								9	.....	651	059
								24	.....	675	055
								26	.....	177	776
								27	.....	177	776
								28	.....	177	776
						5-228	9/5/42	6	.....	585	059
								9	.....	651	059
								36	.....	675	055
								38	.....	177	776
								39	.....	177	776
						5-236	4/1/42	11	.....	585	502
						5-237	4/1/42	6	.....	585	059
								10	.....	651	059
								46	.....	244	931
						5-247	4/23/43	8	.....	585	502
								11	.....	769	821
									12	769	252
								32	.....	038	050
								56	.....	503	803
								71	.....	244	188
								72	.....	244	188
						5-252	3/19/42	21	.....	585	502
								77	.....	314	729
								84	.....	244	359
						5-257	3/19/42	15	.....	585	059
								30	.....	244	931
								36	.....	651	059
								82	.....	244	931
						5-267	4/23/43	8	.....	585	502
								42	.....	503	803
								49	.....	244	188
								50	.....	244	188
						5-276	7/9/43	13	.....	585	502
								25	.....	652	817
								28	.....	410	345
								29	.....	652	817
								56	.....	314	817
						5-277	7/9/43	6	.....	585	059
								12	.....	651	059
								43	.....	314	817
								44	.....	314	817
						5-327	5/14/43	9	585	502	
						5-357	5/19/43	8	585	319	
								10	651	114	
									15	651	319
								31	038	050	
								32	038	050	

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T/O and T/O & E	Date	Line	Column	SSN deletions and changes	Substitute SSN	T/O and T/O & E	Date	Line	Column	SSN deletions and changes	Substitute SSN
5-367.....	7/22/43	61	.....	503	803			35	.....	314	838
		8	.....	585	059	5-517S.....	4/21/43	6	.....	585	838
		19	.....	410	931			35	.....	503	803
5-377.....	8/8/43	8	.....	585	059			38	.....	314	838
		39	.....	503	803	5-526S.....	4/21/43	8	.....	585	502
5-386.....	6/25/43	12	.....	585	502			18	.....	651	610
		45	.....	503	803			23	9	652	610
5-387.....	2/4/44	9	.....	585	502			.....	10	652	605
		43	.....	503	803			33	9	504	610
Med Det.	p. 3							.....	10	504	605
5-411.....	4/1/42	12	.....	652	673			47	.....	503	803
5-412.....	4/1/42	16	.....	585	502			51	.....	675	667
		21	.....	652	359	5-527S.....	4/21/43	6	.....	585	059
		27	.....	410	359			13	.....	651	271
		42	.....	652	359			46	.....	503	803
		.....	15	652	319			50	3	675	345
		45	.....	668	931			.....	4	675	667
		106	.....	177	776	5-536S.....	9/3/43	28	.....	503	803
		107	.....	177	776	5-537S.....	9/3/43	9	.....	585	502
Med Det.	p. 3							45	.....	503	803
5-415.....	4/1/42	7	.....	652	673			63	.....	215	078
5-416.....	4/1/42	12	.....	585	502			64	.....	215	078
		29	.....	410	931	5-538S.....	9/3/43	9	.....	585	502
		45	.....	668	931			53	.....	503	803
		91	.....	177	776	5-539S.....	9/3/43	9	.....	585	502
		92	.....	177	776			44	.....	503	803
		96	.....	244	931			54	.....	314	817
5-417.....	4/1/42	97	.....	244	931			55	.....	314	817
		6	.....	585	059			56	.....	314	817
		8	.....	651	059			68	.....	215	078
		39	.....	734	931	5-547S.....	9/3/43	8	.....	585	502
		50	.....	244	931			17	.....	769	583
5-447.....	2/6/42	9	.....	585	502			34	.....	503	803
		62	.....	177	776	5-557S.....	4/21/43	9	.....	585	502
		63	.....	177	776			15	.....	652	202
		64	.....	177	776			21	.....	668	931
Med Det.	p. 2							40	.....	503	803
5-455.....	5/4/43	8	.....	652	673			48	.....	314	817
5-456.....	5/4/43	12	.....	585	502	5-567.....	6/9/43	7	.....	769	583
		42	.....	606	605			9	.....	769	583
		63	.....	675	667			13	.....	769	583
		73	.....	244	931	5-592.....	6/30/43	12	.....	585	502
		74	.....	244	931			45	.....	503	803
5-457.....	5/4/43	6	.....	585	059	5-600-1.....	4/1/42	21	.....	585	502
		9	4	651	059	5-601-1.....	4/1/42	18	.....	410	345
		.....	7	651	359	5-627.....	9/29/43	6	.....	585	059
		24	.....	606	605			13	.....	651	059
		38	.....	675	055			27	.....	503	345
		45	.....	244	931			34	.....	734	931
		46	.....	244	931			44	.....	314	817
5-466.....	4/17/43	12	.....	585	502	5-652S.....	1/26/44	27	.....	585	502
		29	.....	410	345			53	.....	503	803
5-467.....	4/17/43	6	.....	585	804	5-656S.....	1/26/44	29	.....	585	502
5-476T.....	1/21/44	12	.....	585	502			62	.....	503	803
		50	.....	314	727	5-657S.....	1/26/44	20	.....	585	502
		51	.....	767	776			52	.....	503	803
5-477T.....	1/21/44	6	.....	585	059	5-658S.....	1/26/44	15	.....	585	502
		9	.....	651	059			63	.....	503	803
		36	.....	767	776	5-659S.....	1/26/44	21	.....	585	502
		37	.....	767	776			75	.....	503	803
		38	.....	767	776	5-666S.....	1/26/44	35	.....	585	502
5-510-1S...	4/21/43	13	.....	652	814			74	.....	503	803
		16	.....	585	502	5-667S.....	1/26/44	15	.....	585	259
		38	.....	410	345			35	.....	503	803
		61	.....	503	803	5-669S.....	1/26/44	17	.....	585	502
		64	.....	314	838			47	.....	503	803
5-512S.....	4/21/43	15	.....	585	502	5-677S.....	1/26/44	16	.....	585	502
		26	.....	652	815			50	.....	503	803
		57	.....	503	803						
		62	.....	675	667						
		63	.....	314	838						
5-516S.....	4/21/43	8	.....	585	502						
		18	.....	668	345						
		33	.....	503	803						

Corps

100-1.....	7/15/43	49	.....	675	055
		50	.....	636	055
100-2.....	7/15/43	13	.....	585	502
		16	.....	668	345

APPENDIX I

T/O and T/O & E	Date	Line	Column	SSN deletions and changes	Substitute SSN	T/O and T/O & E	Date	Line	Column	SSN deletions and changes	Substitute SSN
		21	.....	651	821			44	.....	177	740
		29	.....	410	345			45	.....	177	740
		30	.....	653	821			46	.....	177	740
<i>Field Artillery</i>						6-49.....	4/1/42	7	.....	585	502
6-10-1.....	7/15/43	14	.....	585	502			15	.....	539	505
		59	.....	686	761			19	.....	503	761
6-12.....	10/29/43	13	.....	585	502			22	.....	606	605
		51	.....	675	345-2			33	.....	606	605
					667-1			34	.....	606	605
6-20-1.....	1/10/44	14	.....	585	502			39	.....	177	740
		30	.....	606	605			40	.....	177	740
		50	.....	606	605	6-50-1.....	12/27/43	41	.....	504	901
		54	.....	636	761			14	.....	585	502
6-26.....	7/15/43	11	.....	585	502			32	.....	606	605
		28	.....	503	761			54	.....	606	605
6-27.....	7/15/43	53	.....	606	605	6-56.....	7/2/43	58	.....	636	761
		6	.....	585	844			11	.....	585	502
		9	.....	539	844			27	.....	503	761
		13	.....	539	844			29	.....	606	605
		16	.....	503	761	6-57.....	7/31/43	51	.....	606	605
		18	.....	603	844			6	.....	585	845
		20	.....	606	605			9	.....	539	845
		28	.....	531	844			13	.....	539	845
		34	.....	606	605			16	.....	503	645
6-29.....	7/15/43	35	.....	504	844			17	.....	505	845
		9	.....	585	502			19	.....	603	845
		18	.....	539	505			21	.....	606	605
		21	.....	503	761			29	.....	531	845
		23	.....	606	605			36	.....	606	605
		37	.....	606	605	6-59.....	7/2/43	37	.....	504	845
6-36.....	7/15/43	38	.....	504	901			6	.....	585	502
		11	.....	585	502			15	.....	606	605
		27	.....	503	761	6-67.....	7/2/43	30	.....	606	605
		29	.....	606	605			6	.....	585	845
6-37.....	7/15/43	51	.....	606	605			9	.....	539	845
		6	.....	585	844			14	.....	539	845
		9	.....	539	844			16	.....	503	761
		13	.....	539	844			17	.....	505	845
		16	.....	503	761			19	.....	603	845
		17	.....	505	844			21	.....	606	605
		19	.....	603	844			29	.....	531	845
		21	.....	606	844			36	.....	606	605
		29	.....	531	844	6-75.....	4/1/42	37	.....	504	845
		36	.....	606	605	Med. Det. p. 2		5	.....	652	673
6-39.....	7/15/43	37	.....	504	844	6-76.....	3/9/44				
		9	.....	585	502			23	.....	585	502
		19	.....	539	505			44	.....	503	761
		21	.....	503	761			47	.....	606	605
		23	.....	606	605			70	.....	606	605
		37	.....	606	605	6-77.....	3/9/44	14	.....	585	502
6-45.....	4/1/42	6	.....	652	673			33	.....	503	761
Med. Det. p. 2								36	.....	606	605
6-46.....	4/1/42	11	.....	585	502			62	.....	606	605
		20	.....	651	610	6-78S.....	1/31/44	28	.....	606	605
		25	.....	539	610	6-97.....	8/18/43	6	.....	585	845
		30	.....	503	761			9	.....	539	845
		33	.....	606	610			14	.....	539	845
		36	.....	653	610			16	.....	503	761
		42	.....	504	610			17	.....	505	845
		52	.....	606	605			19	.....	603	845
		53	.....	606	605			21	.....	606	605
		60	.....	675	761			29	.....	531	845
		63	.....	177	740			36	.....	606	605
		64	.....	177	740			37	.....	504	845
6-47.....	4/1/42	65	.....	177	740	6-110.....	4/1/42	6	.....	652	673
		6	.....	585	844	Med. Det. p. 2					
		9	.....	539	844	6-110-1.....	4/1/42	12	.....	585	502
		13	.....	539	844			24	.....	606	605
		17	.....	503	645			44	.....	606	605
		18	.....	505	844			45	.....	606	605
		20	.....	603	844			51	.....	675	761
		22	.....	606	605			54	.....	177	740
		30	.....	531	844			55	.....	177	740

MILITARY OCCUPATIONAL CLASSIFICATION OF ENLISTED PERSONNEL

T/O and T/O & E	Date	Line	Column	SSN deletions and changes	Substitute SSN	T/O and T/O & E	Date	Line	Column	SSN deletions and changes	Substitute SSN
6-115	4/1/42	56		177	740			29		531	844
Med. Det. p. 2		6		652	673			33		734	931
6-117	4/1/42	6		585	844			34		736	844
		9		539	844			35		736	844
		13		539	844			38		504	844
		17		503	761			45		704	650
		18		505	844			47		743	645
		20		603	844	6-169	9/15/43	48		743	645
		22		606	605			9		585	502
		30		531	844			21		539	821
		44		177	740			24		503	761
		45		177	740	6-176	7/28/43	44		504	901
		46		177	740			11		585	502
6-125	4/24/43	5		652	673			32		503	761
Med. Det.								35		606	605
6-127	9/29/43	6		585	845			58		606	605
		9		539	845	6-177	7/28/43	59		606	605
		14		539	845			6		585	1531
		16		503	645			9		539	1531
		17		505	845			13		539	1531
		19		603	845			15		503	645
		21		606	605			17		603	1531
		29		531	845			19		606	1531
		33		736	845			28		531	1531
		34		736	845			34		606	1531
		37		606	605			35		606	1531
		38		504	845	6-200	9/5/42	36		504	1531
6-129	9/29/43	7		585	502	Med. Det. p. 2		6		652	673
		15		606	605	6-200-1	9/5/42	15		585	502
		30		606	605			29		606	605
6-150	4/1/42	6		652	673			32		177	740
Med. Det. p. 2								44		606	605
6-150-1	4/1/42	8		652	673			45		606	605
		14		585	502			50		177	740
		49	5	675	761			51		177	740
			6	675	667			52		177	740
		55		177	740	6-212S	8/18/43	24		675	055
		56		177	740	6-216	9/5/42	11		585	502
		57		177	740			35		606	605
6-156	5/4/43	10		585	502			37		177	740
		50		177	740			54		606	605
		51		177	740			55		606	605
		52		177	740			56		636	761
6-157	5/4/43	6		585	1531			63		177	740
		9		539	1531			64		177	740
		14		539	1531			65		177	740
		19		603	1531	6-217	9/5/42	6		585	1531
		28		531	1531			9		539	1531
		35		177	740			11		539	1531
		36		177	740			14		503	645
6-160	2/12/44	18		734	931			15		505	1531
Med. Det.								17		603	1531
6-160-1	2/12/44	26		585	502			19		606	1531
		42		503	345			28		531	1531
		73		636	345			29		606	1531
6-165	9/15/43	13		734	931			30		606	1531
Med. Det.								34		177	740
6-166	9/15/43	10		585	502			35		177	740
		22		503	761			36		177	740
		27		503	761	6-218	9/5/42	5		585	1531
		30		616	2736			7	4	651	605
		50		734	931				7	651	1531
		51		736	2736			12	5	653	605
		52		736	2736				8	653	1531
		55		604	2736			17		504	1531
		64		675	345			22		606	605
		65		675	345			23		606	605
		68		704	650			25		177	740
6-167	9/15/43	6		585	844			26		177	740
		8		539	844			27		177	740
		14		539	844			10		585	502
		17		503	761	6-226	9/5/42	31		606	605
		19		603	844			32		177	740

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T/O and T/O & E	Date	Line	Column	SSN deletions and changes	Substitute SSN	T/O and T/O & E	Date	Line	Column	SSN deletions and changes	Substitute SSN						
6-227	9/5/42	49	.....	606	605	6-359	7/2/43	7	.....	585	502				
		50	.....	606	605			15	.....	606	605				
		51	.....	636	761			6-367	7/2/43	30	.....	606	605		
		57	.....	177	740					6	.....	585	845		
		58	.....	177	740					9	.....	539	845		
		59	.....	177	740					14	.....	539	845		
		6	.....	585	1531					16	.....	503	645		
		9	.....	539	1531					17	.....	505	845		
		13	.....	539	1531					19	.....	603	845		
		16	.....	503	645					21	.....	606	845		
		17	.....	505	1531					29	.....	531	845		
		19	.....	603	1531					33	.....	244	735		
		21	.....	606	1531			36	.....	606	845				
		31	.....	531	1531			37	.....	504	845				
		36	.....	606	1531			6-397	8/18/43	6	.....	585	845		
		37	.....	606	1531					9	.....	539	845		
		43	.....	177	740					14	.....	539	845		
		44	.....	177	740					16	.....	503	645		
		45	.....	177	740					17	.....	505	845		
		6-270-1T	1/21/44	27					675	055	6-277T	1/21/44	19	603	845
29			177	740	21	.....			606	845					
30			177	776	29	.....			531	845					
6			585	1531	33	.....			244	735					
9	651	1531	36	.....	606	845									
12	539	1531	37	.....	504	845									
17	603	1531	<i>Infantry</i>													
23	531	1531	6-327	7/26/43	7-2	7/15/43	13	.....	585	502					
29	177	740					19	.....	4	.....	651	566		
30	177	740					.....	.....	6	.....	651	610	
31	177	776					7-12	2/26/44	7-12	2/26/44	25	653	610		
6	585	844									31	504	610		
9	539	844									33	531	610		
14	539	844									22	585	502		
16	503	645									28	651	631		
18	603	844									33	653	761		
20	606	844									36	653	761		
28	531	844	55	.....	675	667									
32	244	735	7-13	2/26/44	7-13	2/26/44					25	585	502		
35	606	844									34	668	345		
36	504	844					37	.....	668	345					
6-329	7/26/43	9					585	502	65	4	675	345		
		18					539	505	5	675	745		
		21					503	345	6	675	745		
		23					606	605	7-14	2/26/44	7-14	2/26/44	10	585	844
37	606	605					12					651	844		
38	504	901					18					539	844		
6-337	7/3/43	6					585	844					22	503	745
		9	.....	539	844	24	.....	603	844						
		14	.....	539	844	29	.....	504	844						
		16	.....	503	645	32	.....	531	844						
		17	.....	505	844	40	.....	675	345						
		19	603	844	7-16	2/26/44	7-16	2/26/44					17	585	502
		21	606	844									19	8	.....	651	505
		29	531	844					9	651	610		
		33	.....	244	735					27	.....	653	610		
		36	.....	606	844					32	.....	653	505		
37	504	844	37	.....					603	610					
6-339	7/3/43	9	585	502					42	10	504	610		
		19	.....	539	505					45	.....	531	610		
		21	503	345					57	7	675	745		
		23	606	605					9	675	345		
37	606	605	6-357	7/31/43	7-17	2/26/44	11	.....	585	1812					
38	504	901					13	.....	5	.....	651	1812		
6	585	845					.....	.....	13	.....	651	745	
9	539	845					16	.....	6	.....	651	745		
14	539	845					17	.....	6	.....	652	607		
16	503	645					.....	.....	9	.....	652	604	
17	505	845					18	.....	653	745					
19	603	845					22	.....	7	.....	653	607		
21	606	845					10	653	604				
29	531	845					23	653	745						
33	244	735	30	7	504	607								
36	606	845	10	504	604								
37	504	845														

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T/O and T/O & E	Date	Line	Column	SSN deletions and changes	Substitute SSN	T/O and T/O & E	Date	Line	Column	SSN deletions and changes	Substitute SSN
		48		177	740			43		531	610
		49		177	740			63	6	675	641
7-53	9/5/42	9		585	502				8	675	345
		20		668	345	7-132	4/1/42	11		585	502
		46	3	675	055			13		651	631
			4	675	055			16		539	542
7-56	9/5/42	4		585	502			19	6	652	604
		11		651	1607				7	652	745
			13	651	605				11	652	542
		16	9	652	1607			24	6	653	604
			14	652	605				7	653	745
		19	8	645	1607			29		504	604
			13	645	605			46		675	745
		20	6	653	505			47		675	745
			10	653	1607			48		177	740
			15	653	605			49		177	740
		25	6	504	901			50		177	740
			10	504	1607	7-133	4/1/42	12		585	713
			15	504	605			51		675	745
		34		607	1607			12		652	713
		35		607	1607	7-136	4/1/42	16		653	713
		36	5	675	761			24		636	761
			8	675	1607			26		675	667
			13	675	605			27		675	667
7-57	9/5/42	6		585	1812	7-137	4/1/42	6		585	1812
		9		651	1812			9	4	651	1812
		12	5	652	607				12	651	745
			8	652	604			12		651	745
		13		653	745			13	5	652	607
		17	6	653	607				8	652	604
			9	653	604			17	6	653	607
			12	653	1812				9	653	604
		18		653	745				13	653	746
		23	6	504	607				14	653	745
			9	504	604			23	6	504	607
			12	504	745				9	504	604
			13	504	745				13	504	746
		33		675	745			29	6	603	607
7-72T	1/21/44	14		585	502				9	603	604
		51		675	667			30	6	603	607
		54		767	776				9	603	604
7-76T	1/21/44	8		585	502			32	3	675	745
		15		652	1607				4	675	745
		17		653	729				5	675	607
		20		653	1607				8	675	604
		25		504	1607				12	675	745
		29		607	1607	7-138	4/1/42	6		585	812
		30		607	1607			9	4	651	604
		33		675	667				7	651	1607
		34		177	740			12		652	1607
		35		177	740			16	4	503	604
		36		177	776				7	503	1607
7-77T	1/21/44	6		585	1812			18	5	653	604
		8	5	651	604				9	653	1607
			11	651	1812			24	5	504	604
		11		652	604				9	504	1607
		12		653	745			30	5	603	604
		15	6	653	505				9	603	1607
			8	653	604			31	5	603	604
			13	653	607				9	603	1607
		16		653	745			34		675	745
		23	6	504	901	7-416	4/13/43	10		585	502
			8	504	604			19		651	1736
			13	504	607			22		410	931
		32		675	745			24		795	1736
7-86	2/29/44	17		585	502			39		734	931
		51		675	745			42		736	1736
7-96	7/21/43	11		585	502			43		736	1736
		22	7	651	505			46		604	1736
			8	651	610			47		616	1736
		29		653	610			48		616	1736
		33		603	610			52		675	345-2
		34		653	505						745-2
		35		668	345			53		177	740

MILITARY OCCUPATIONAL CLASSIFICATION OF ENLISTED PERSONNEL

T/O and T/O & E	Date	Line	Column	SSN deletions and changes	Substitute SSN
		54		177	740
		55		177	740
7-417	4/13/43	6		585	1812
		8	4	651	605
			7	651	1812
		11		653	745
		14	5	653	605
			8	653	607
		15		653	745
		19	5	504	605
			8	504	607
			9	504	745
		24	3	675	745
			4	675	{345-1
					{605-1
			7	675	745

Medical Department

8-17	7/15/43	7		585	502
		10	4	651	673
				651	673
			6	651	673
		13		503	673
		15	4	652	673
			5	652	673
			6	652	345
		18	4	652	673
			5	652	673
8-18	7/15/43	6		585	502
		9		651	673
		13		652	673
8-22	11/1/43	17		668	345
8-27	11/1/43	6		585	502
		9	4	651	673
			5	651	673
			6	651	345
		14	4	652	673
			5	652	673
			6	652	345
		17	4	652	673
			5	652	673
		35		177	422
8-28	11/1/43	6		585	502
		9		651	673
		13		652	673
8-37	9/5/42	6		585	502
		11		651	673
		16	6	652	673
			7	652	345
		22		652	345
8-76	9/5/42	11		585	502
		44		734	931
		49		675	345
		50		675	345
8-77	9/15/43	7		585	502
		11		651	673
		16		652	673
		20		652	673
		32		734	931
8-86	4/1/42	9		585	502
8-87	4/1/42	5		585	502
		9		651	673
		11	4	652	673
			5	652	673
			6	652	345
		14	4	652	673
			5	652	673
			6	652	345
8-88	4/1/42	5		585	502
		8		651	673
		11		652	673
		14		652	673
8-89	4/1/42	5		585	502
		8		651	250

T/O and T/O & E	Date	Line	Column	SSN deletions and changes	Substitute SSN
		11		652	250
8-99	5/3/43	6		585	502
		12	4	652	250
			5	652	931
8-117	6/23/43	6		585	502
		9		651	196
8-126	6/23/43	10		585	502
8-127	6/23/43	5		585	502
		8		651	673
		11	5	652	409
			6	652	673
8-136	4/1/42	9		585	502
8-137	4/1/42	5		585	502
		8		651	673
		11		503	673
		12	4	652	673
			5	652	673
		15	4	652	673
			5	652	673
8-138	4/1/42	5		585	502
		9		651	673
		11		652	673
		16		652	345
8-139	4/1/42	5		585	502
		8	4	651	250
			5	651	931
		12	4	652	250
			5	652	931
		16	4	652	250
			5	652	345
8-177T	1/21/44	6		585	502
		10		651	673
		14		652	673
		18		651	673
		32		177	776
		33		177	776
		34		177	776
8-187	1/29/44	11		585	502
8-196S	4/21/43	10		585	502
8-197S	4/21/43	7		585	502
		10		651	673
		15	4	652	673
			5	652	345
		17	4	652	657
			5	652	345
8-317	5/20/43	6		585	502
		10		651	673
		13		652	345
8-450	10/27/43	21		857	409
8-510	9/28/43	15		585	502
8-520	2/12/44	16		585	673
8-537T	12/7/43	21		585	502
		29		652	673
		33		653	673
		38		653	673
8-538	10/27/42	12		585	502
8-540	4/1/42	13		585	502
		29		652	673
8-550	4/1/42	14		585	502
8-550S	10/26/43	23		585	502
8-560	7/22/42	15		585	502
8-560S	5/23/42	9		585	502
8-570	8/21/43	15		585	502
8-571	7/13/42	9		585	502
		13		652	673
8-580	4/23/43	17		585	502
8-581	7/26/43	16		585	502
8-590	4/1/42	11		585	502
		20		539	673
8-600-1	8/12/43	10		585	502
8-610	6/6/43	10		585	858
8-650	4/1/42	7		585	502
8-661	4/2/42	12		585	502
		28	4	652	014

APPENDIX I

T/O and T/O & E	Date	Line	Column	SSN deletions and changes	Substitute SSN
			6	652	825
			7	652	825
			8	652	825
8-750	5/14/43	10		585	502
8-760	7/20/42	8		585	502
8-780	4/1/42	7		585	502
		10		651	250
		15		652	250
8-790	7/20/42	10		585	502
		13		642	250

Military Police

19-7	7/15/43	11		652	677
19-17	4/1/42	5		651	677
19-36	8/19/43	41		675	055
19-37	8/19/43	6		585	677
19-47	11/25/43	6		585	677
19-56	11/27/43	25		504	901
		35		636	345
19-57	11/27/43	6		585	677
		9		651	677
		14		653	677
		17		653	677
19-77	11/6/43	9		651	677
		11		652	677
		13		653	677
19-87	4/1/42	11		652	677
		25		177	776
		26		177	776
19-97	9/5/42	9		652	677
		23		177	776
		24		177	776
19-117	9/15/43	20		734	931
		23		675	345
19-177T	1/21/44	5		651	677
		7		653	677
		9		653	677
		13		675	677
19-217	5/1/42	6		585	677
19-237	11/18/43	6		585	677
		8		651	677
		13		652	677
		16		652	677
		20		652	055

Miscellaneous

20-42	8/31/43	16		585	502
		20		818	502
		30		818	502
		34		818	502
20-47	8/31/43	6		585	502
		9		651	566
		12		653	566
28-17	4/2/43	5		585	502
		9		651	502
29-22	9/17/43	12		585	502
55-127S	12/17/42	6		585	271
		11		539	271
60-80-1	3/20/42	11		585	502
		15		651	870
		70		139	901
		71		139	901

Mountain

70-2	4/1/42	13		585	502
		17	4	651	566
			5	651	345
			6	651	604
		28		653	565
		48		675	745

Ordnance

9-7	2/5/44	16		585	502
		82		675	345

T/O and T/O & E	Date	Line	Column	SSN deletions and changes	Substitute SSN
9-8	7/15/43	11		585	502
		30		410	055
		61		215	912
9-9	7/3/43	9		585	502
		86		675	345
9-17	4/1/42	8		585	502
		10		651	815
		11		139	505
		49		675	055
		50		139	901
		51		139	901
		52		139	901
9-37	7/3/43	9		585	502
9-47	4/1/42	7		585	502
		21		005	048
		38		180	048
		39		180	048
		40		675	055
		41		139	901
9-57	6/1/43	9		769	252
		10		585	502
		15		668	345
		18		769	252
9-66	9/15/43	14		585	502
		74		734	931
		84		675	345
		85		675	345
9-67	9/15/43	9		585	502
		52		734	931
		55		215	912
		88		675	345
9-87	9/5/42	10		585	502
		28		504	901
		41		215	912
9-97S	10/11/43	8		585	502
		44		503	803
9-127	3/24/43	8		585	502
9-137	4/1/42	11		585	502
		57		675	055
9-157	12/16/40	6		585	502
		18		139	505
		30		675	345
		32		139	901
		33		139	901
		34		139	901
		35		139	901
9-167	12/16/40	9		585	502
		11		139	505
		17		139	505
		24		139	505
		42		139	901
		43		139	901
		44		139	901
9-177	4/1/42	8		585	502
		12		651	924
		15		652	924
		18		652	924
		36		675	055
		37		139	924
9-187	10/2/42	6		585	502
		8		651	529
		15		653	529
9-197	4/2/43	9		585	502
		68		215	912
9-217	3/17/43	9		585	502
9-257	9/16/43	9		585	502
		87		215	912
9-312	6/8/43	34		675	345
9-316	10/11/43	12		585	502
9-317	10/11/43	9		585	502
9-318	10/11/43	8		585	502
9-319	12/14/43	8		585	502
9-325	3/23/43	10		585	502
9-327	10/11/43	8		585	502

MILITARY OCCUPATIONAL CLASSIFICATION OF ENLISTED PERSONNEL

T/O and T/O & E	Date	Line	Column	SSN deletions and changes	Substitute SSN	T/O and T/O & E	Date	Line	Column	SSN deletions and changes	Substitute SSN	
9-328	10/28/43	8		585	502	10-217	7/30/43	8		585	252	
		55		215	912	10-227	9/6/43	10		585	252	
		56		215	912	10-237	7/6/43	8		585	194	
9-337	10/8/43	6		585	502	10-247	2/25/44	8		585	322	
		8		668	345			14		651	322	
		11		668	345			17		652	322	
		14		668	345	10-257	9/30/43	8		585	591	
		16		668	529			42		726	590	
		18		410	055			43		726	590	
9-347	10/11/43	6		585	502	10-260-1	7/1/42	16		585	502	
9-348	3/23/43	8		585	502			18		139	505	
		40		215	912			74		139	901	
		41		215	912	10-276S	9/13/43	9		585	502	
9-377	10/11/43	8		769	815			14		651	356	
		9		585	502			17		652	356	
		11		769	815			20		653	345	
		23		769	815	10-297	11/6/43	5		585	502	
9 417	9/29/43	9		585	502			10		651	076	
								15		539	356	
						10-317	11/5/43	6		585	502	
						10-327	9/5/42	9		585	821	
								19		653	356	
								5		653	345	
								6		653	345	
						Med. Det. (p. 2)						
						10-335	9/16/42	6	3	652	673	
									4	652	250	
									8	3	652	673
										4	652	250
						10-336	9/16/42	12		585	502	
								19		651	356	
								23		652	356	
								27		653	356	
						10-367	10/26/43	6		585	502	
								8		769	252	
								15		769	252	
						10-387	11/16/43	10		585	502	
								17		769	252	
						10-417	2/11/42	7		651	821	
								8		585	821	
								11		651	821	
						10-437	10/8/43	7		651	821	
								9		585	821	
								11		651	821	
						10-437-RS	1/12/44	9		585	821	
								10		651	821	
								12		651	821	
						10-457	7/1/42	8		585	502	
						10-467	10/9/43	9		585	252	
						10-477	9/17/43	11		585	252	
						10-500-1	7/21/42	13		585	502	
								51		675	055	
						10-517	8/18/43	6		668	345	
								8		668	345	
								12		652	345	
								16		410	345	
								17		653	345	
						10-518	7/1/42	6		668	345	
								11		652	345	
								14		653	345	
								25		410	345	
						10-520-1	8/11/43	11		769	252	
								15		585	502	
								18	9	769	820	
									10	769	821	
									11	769	821	
								50		675	055	
						10-527	3/20/42	6		585	502	
								22		269	373	
						10-528	3/20/42	8		585	502	
						10-529	3/20/42	6		585	502	
								11		668	345	
								13		668	345	
								59		675	345	
								64		215	078	

Quartermaster

10-17	2/19/44	20		585	345
		27	6	651	356
			7	651	345
		30	6	652	356
			8	652	345
		34		410	345
		35	6	653	356
			8	653	345
10-22	12/5/43	22		503	345-2
					761-1
10-57	8/8/43	6		585	345
		11		651	345
		14		652	345
		17		410	345
		18		653	345
10-67	2/25/44	10		585	356
		13		651	356
		16		652	356
		19		653	356
10-77	4/1/42	6		585	821
		10		651	821
		12		652	821
		16		410	345
10-87	12/29/43	6		585	345
		11		651	345
		15		653	345
Med. Det. (p. 3)					
10-95	7/21/43	6	3	652	673
			4	652	250
		10		652	673
10-97	1/22/44	6		585	093
10-116	9/15/42	12		585	356
		19		651	356
		23		652	356
		27		653	356
		38		818	405
10-118	12/18/43	5		585	713
10-127	11/20/42	6		585	710
		9		651	235
		14		652	235
10-137	11/1/40	11		585	502
10-147	5/26/43	6		585	017
10-147S	10/2/43	5		585	017
		14		410	931
10-157	5/28/43	8		585	819
10-167	6/10/43	8		585	102
10-177	4/1/42	8		585	103
		45		726	590
		46		726	590
10-187	6/23/43	8		585	194
10-197	10/8/43	6		585	502
		9		651	356
		12		652	356
		14		652	356

APPENDIX I

T/O and T/O & E	Date	Line	Column	SSN deletions and changes	Substitute SSN
10-547.....	5/25/43	7	.....	632	292
		9	.....	632	292
10-577T.....	1/21/44	6	.....	585	345
		8	.....	668	345
		14	.....	652	345
		17	.....	652	345
10-578.....	5/4/43	5	.....	585	713
<i>Signal Corps</i>					
11-7.....	12/11/43	12	.....	585	502
		65	.....	675	667
		66	.....	675	345
		67	.....	675	345
11-16.....	12/10/43	13	.....	585	502
		37	.....	675	345
		63	.....	675	345
11-18.....	12/10/43	12	.....	585	502
		66	.....	675	667
		67	.....	675	345
		68	.....	675	345
11-18S.....	8/10/42	10	.....	585	502
		18	.....	704	650
		41	.....	675	345
		49	.....	704	650
		50	.....	704	650
11-26.....	2/25/44	32	.....	503	345
11-27.....	12/10/43	8	.....	585	502
11-37.....	2/12/44	15	.....	585	502
11-39.....	9/6/43	8	.....	585	560
11-47.....	4/1/42	11	.....	585	502
		36	.....	410	345
		67	.....	675	667
11-57.....	9/15/43	12	.....	585	502
		42	.....	503	345
		55	.....	734	931
		63	.....	675	667
		64	.....	675	667
11-67.....	1/13/44	6	.....	585	502
11-77.....	4/1/42	10	.....	585	502
		49	.....	675	667
		62	.....	215	078
11-96.....	4/1/42	11	.....	585	502
11-97.....	4/1/42	11	.....	585	502
		74	.....	675	667
11-107.....	4/1/42	10	.....	585	502
		78	.....	215	078
11-117S.....	2/17/42	12	.....	585	502
		57	.....	203	050
		83	.....	203	050
11-127.....	4/1/42	7	.....	585	502
11-147S.....	10/21/43	11	.....	585	502
		52	.....	675	345
		53	.....	675	345
11-217.....	5/19/42	8	.....	177	766
		10	.....	585	502
		12	.....	177	766
		17	.....	177	766
		25	.....	177	766
		60	.....	675	667
		67	.....	177	766
11-237.....	3/26/43	8	.....	585	502
		49	.....	675	667
11-247.....	7/1/42	8	.....	585	502
		46	.....	675	667
		47	.....	704	309
		48	.....	704	309
11-257.....	8/14/43	8	.....	585	502
		20	.....	668	345
		51	.....	675	667
11-267.....	3/14/42	10	.....	585	502
		15	.....	177	766
		20	.....	177	766
		58	.....	675	667
		60	.....	177	766

T/O and T/O & E	Date	Line	Column	SSN deletions and changes	Substitute SSN
		61	.....	177	766
		62	.....	177	776
11-277.....	5/19/42	8	.....	585	238
		17	.....	668	345
11-287.....	3/26/43	13	.....	585	502
		82	.....	675	667
11-297.....	7/7/43	9	.....	585	502
		46	.....	675	055
11-300-1...	4/1/42	22	.....	585	502
11-317.....	4/1/42	10	.....	585	502
		62	.....	675	667
		63	.....	675	667
11-327.....	4/1/42	10	.....	585	502
		69	.....	675	055
11-412S-					
516.....	6/19/43	14	.....	585	502
		26	.....	668	345
11-412-1S..	3/5/42	12	.....	668	345
		13	.....	585	502
11-414S.....	3/5/42	6	.....	585	502
		12	.....	668	345
		15	.....	177	766
		44	.....	177	776
		45	.....	177	776
		46	.....	177	776
11-416S					
516.....	6/26/43	8	.....	585	502
11-417S					
516.....	6/22/43	8	.....	585	502
		37	.....	743	055
		38	.....	743	055
11-418S					
516.....	6/22/43	9	.....	585	502
		50	.....	675	667
		51	.....	675	667
11-426S.....	3/5/43	6	.....	585	502
		11	.....	177	766
		14	.....	668	345
		17	.....	177	766
		48	.....	177	776
		49	.....	177	776
		50	.....	177	776
11-427S.....	3/5/42	6	.....	585	502
		11	.....	177	766
		15	.....	177	766
		17	.....	668	345
		50	.....	177	776
		51	.....	177	776
		52	.....	177	776
11-435S.....	4/22/43	11	.....	585	542
11-437.....	6/28/43	12	.....	585	502
		57	.....	675	667
11-450-1...	9/4/41	9	.....	177	766
		11	.....	585	502
		17	.....	177	766
		27	.....	743	055
		28	.....	668	345
		37	.....	177	766
		61	.....	675	667
		62	.....	675	345
		63	.....	675	345
		69	.....	177	766
		70	.....	177	766
		71	.....	177	776
		72	.....	743	055
		73	.....	743	055
11-460-1S..	8/26/43	10	.....	585	502
		57	.....	675	667
11-488S.....	8/16/43	9	.....	585	502
11-537S.....	4/21/43	11	.....	585	502
		25	.....	652	641
11-557.....	8/10/43	11	.....	585	502
		44	.....	675	667
		45	.....	675	667

MILITARY OCCUPATIONAL CLASSIFICATION OF ENLISTED PERSONNEL

T/O and T/O & E	Date	Line	Column	SSN deletions and changes	Substitute SSN
11-577T	1/21/44	46	.....	675	667
		44	.....	675	667
		45	.....	675	667
11-587	11/23/43	6	.....	585	502
		55	.....	038	050
		56	.....	038	050
11-592	11/23/43	8	.....	585	502
		54	.....	675	345
11-597	11/23/43	6	.....	585	502

Tank Destroyer

18-10-1	12/30/43	13	.....	585	502	
		41	.....	734	931	
		46	.....	675	345	
		26	.....	585	502	
		43	.....	668	345	
18-26	3/15/44	46	.....	410	931	
		52	.....	504	901	
		66	.....	606	605	
		71	.....	675	{345-2 745-1	
		18-27	3/15/44	9	585	610
				14	651	610
				18	602	610
19	.....			652	745	
25	.....			652	745	
31	.....			531	610	
35	4			733	931		
.....	7			733	610		
37	.....			736	610	
38	.....			736	610	
40	.....			606	605	
18-28	3/15/44	45	.....	675	345	
		11	.....	585	733	
		15	7	651	729		
		.....	10	651	733	
		20	.....	744	733	
		38	.....	610	733	
		39	.....	605	733	
		40	3	606	605		
		43	4	675	{345-1 667-1		
		.....	10	675	345	
		18-36	5/7/43	12	585	502
23	.....			651	733	
26	.....			668	345	
31	.....			652	733	
32	.....			668	345	
52	5			345	733		
53	5			345	733		
55	4			606	605		
.....	5			606	733		
63	.....			177	740	
64	.....			177	740	
18-37	5/7/43	65	.....	177	740	
		6	.....	585	610	
		11	.....	651	610	
		14	.....	602	610	
		16	.....	652	745	
		21	.....	652	745	
		28	.....	531	610	
		33	.....	734	610	
		41	.....	177	740	

T/O and T/O & E	Date	Line	Column	SSN deletions and changes	Substitute SSN		
<i>Transportation Corps</i>							
55-37	4/29/43	6	.....	585	927	
		11	.....	651	927	
		12	.....	652	927	
		15	.....	652	927	
		18	.....	410	934	
55-47	3/17/44	19	.....	653	927	
		24	.....	585	502	
		89	.....	314	065	
55-110-1	11/20/43	16	.....	585	502	
		24	.....	410	502	
		58	.....	410	055	
		6	.....	585	502	
55-117	4/9/43	6	.....	585	502	
55-147	5/5/43	6	.....	585	502	
55-217	10/28/43	11	.....	653	677	
		6	.....	585	502	
55-202	5/3/43	13	.....	585	502	
55-226	10/28/43	27	.....	668	345	
		12	.....	585	502	
		39	.....	211	236	
55-227	10/28/43	6	.....	585	502	
55-228	10/28/43	6	.....	585	502	
		33	6	005	048		
		.....	9	005	112	
		69	.....	180	112	
		70	5	180	112		
		.....	9	180	112	
		71	.....	180	112	
		55-229	10/28/43	6	585	502
		55-236	10/4/43	12	585	502
				66	180	114
				67	180	114
76	.....			215	078	
7	.....			180	342	
8	.....			585	502	
13	.....			180	112	
16	.....			005	112	
19	.....			180	112	
25	.....			180	112	
33	.....			005	112	
34	.....	005	112			
35	.....	005	112			
36	.....	005	112			
64	.....	180	112			
65	.....	180	112			
66	.....	180	112			
67	.....	180	112			
71	.....	215	078			
55-238	10/4/43	8	.....	585	502	
55-239	10/4/43	6	.....	585	502	
		10	.....	038	046	
		23	.....	038	046	
		41	.....	248	046	
55-260	3/22/43	6	.....	585	502	
55-302	4/10/43	16	.....	585	502	

Women's Army Corps

35-57	2/24/43	8	.....	585	502
35-67	2/24/43	6	.....	585	502
		39	.....	743	055
		40	.....	743	055
		52	.....	743	055
		53	.....	743	055

Appendix II

Army Specialized Training Codes

1. Training under the Army Specialized Training Program is conducted in both basic and advanced phases.

a. The basic phase curricula are designed to train enlisted men for specialization in one of the advanced phase curricula, or for assignment to positions which require the equivalent of college work on the freshman and sophomore level but not the equivalent of work on the junior level or above. The basic phase curricula consist generally of courses in mathematics, physics, chemistry, English, history, or geography. Included in these curricula may be one or more courses in surveying and allied subjects, engineering drawing, mechanisms and power transmission, internal combustion engines, principles of wire communication, and

principles of radio. For specific information as to the courses each enlisted man has pursued or completed, reference will be made to the transcript of academic record.

b. The advanced phase curricula are designed to train enlisted men for specialization in the field of engineering, languages, medicine, dentistry, veterinary medicine, and personnel psychology. A separate symbol is provided for each type of advanced curriculum. For specific information as to curriculum content, reference will be made to the transcript of academic record.

2. The following symbols are assigned for trainees and graduates of the Army Student Training Program:

Curriculum basic	Symbol	
	Trainee	Graduate
Basic phase, general	BMO	A01
<i>Engineering</i>		
Chemical engineering		A21
Civil engineering	ECO	A22
Sanitary engineering (Term 7)	ESO	A23
Sanitary engineering (Term 8)	ESA	A24
Electrical engineering (Terms 4 and 5)	ELO	
EE power specialist (Terms 6 and 7)	EPO	A25
EE communications specialist (Terms 6 and 7)	EUO	A26
Mechanical engineering	EMO	A27
Marine transportation		A28
<i>Foreign Area and Language Studies</i>		
Annamese	LAO	A35
Arabic (eastern)	LBO	A36
Arabic (western)	LCO	A37
Bengali	LDO	A38
Bulgarian	LEO	A39
Burmese	LFO	A40
Chinese	LGO	A41
Czech	LHO	A42
Dutch	LIO	A43
Finnish	LJO	A44
French	LKO	A45
German	LMO	A46
Greek	LNO	A47
Hindustani	LPO	A48
Hungarian	LQO	A49
Italian	LRO	A50

* As distinguished from language study supplemented by area study.

3. Pending publication of TM 12-425, instructions which govern the recording of the above listed symbols on W. D.,

Curriculum basic	Symbol	
	Trainee	Graduate
Japanese	LSO	A51
Korean	LTO	A52
Malayan	LUO	A53
Norwegian	LVO	A54
Persian	LWO	A55
Polish	LXO	A56
Portuguese	LYO	A57
Roumanian	LZO	A58
Russian	LAM	A59
Serbo-Croat	LBM	A60
Spanish	LCM	A61
Swedish	LDM	A62
Thai	LEM	A63
Turkish	LFM	A64
<i>*Language Studies</i>		
Japanese	LGM	A70
<i>Preprofessional and Professional</i>		
Premedical	MNO	
Pre dental	MDO	
Preveterinary	MVO	
Medical	MMP	A84
Dental	MDP	A85
Veterinary	MVP	A86
<i>Miscellaneous</i>		
Personal psychology		A90
Technical fields (Term 9A)	ZEO	A91
Linguistic fields (Term 9L)	ZIO	A92
Special USMA curriculum	HSO	

A. G. O. Form No. 20 will be found in Circular No. 141 W. D., 11 Apr. 1944.