A manual of vocational and educational training opportunities in the United States Air Force

Burritt Hollister Pond

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A MANUAL OF VOCATIONAL AND EDUCATIONAL
TRAINING OPPORTUNITIES
IN THE
UNITED STATES AIR FORCE

by

BURRITT H. FORD
B.S., MONTANA STATE COLLEGE, 1950

Presented in partial fulfillment
of the requirements for the degree of
Master of Arts

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This thesis has been approved by the Board of Examiners
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Master of Arts.

Chairman of the Board of Examiners

Dean of the Graduate School

Date June 5, 1952
Although much of the material in this thesis was gathered from official reports, regulations, and correspondence of the United States Air Force and subordinate units, the opinions and deductions are strictly the personal interpretation of the author and do not necessarily represent the views of the United States Air Force or any of its subordinate units. None of the material contained herein falls in the category of information affecting the National Defense of the United States as defined by Espionage Laws Title 18, USC, Sections 793 and 794.
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CHAPTER I

I. INTRODUCTION

Statement of the problem. The purpose of this study was to investigate, interpret, and compile in a single manual, United States Air Force guidance material, for high school and junior college counseling personnel, with regard to: (1) vocational and educational training; (2) Air Force job descriptions and requirements; (3) related civilian jobs; (4) individual aptitudes necessary for entry into, and success in a particular career field; (5) civilian school courses desirable as preparation for entry into specific Air Force jobs; and (6) normal job progression in the various career fields.

Limitations of the study. This study was restricted to an analysis of vocational and educational opportunities available to prospective United States Air Force Airmen personnel. The Air Force Officer Career Program will not be implemented until the summer of 1952; consequently there will be no mention of either the present or future officer training or work experience programs.

Background, setting, and importance of the study. The importance to the nation of military preparedness at this time is more or less an incontestable subject. It also seems apparent that

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for the next decade the United States will be obliged to maintain a sizable Air Force.  

The author served several years in the Army Air Force during World War II, and taught a vocational course in a Montana high school after World War II, and worked with personnel in classification and assignment in the present mobilization effort of the United States Air Force. During this time he observed the very apparent need for a more effective means of informing service eligible men about the vocational and educational opportunities available to them in the Air Force. From this it was determined that a documentary, unbiased, and uncolored Air Force guidance manual would be a desirable tool for high school and junior college counselors. 

Chisholm states that: 

Guidance is based on the assumption that the world has a place for everybody, at least that our democratic America has— a place in the social world, a place in the world of education, a place in civic life, and a place in the vocational world.  

A corollary to this assumption, might be, that there is definitely a place vocationally for everybody in the military service should he be called to duty. In addition, the student of unquestioned ability who is unable to continue his education beyond the secondary level, has not in many instances known of the opportunities available to him in the military service, in the way of education and vocational 

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training. From a purely selfish point of view, the high school graduate of today should look into the service career opportunities, since he may be called upon to interrupt his civilian vocation, in time of emergencies. One of the goals of guidance, must then, be to have available to students, accurate, factual, information concerning service vocations. It is possible, with adequate guidance, for a young man to plan his service experience to further his civilian vocational training, while in the service. In this light, an individual would be able to look upon military service as an advancement in his life training, rather than an obstacle to be hurdles.

A preliminary survey of guidance literature revealed a lack of any study of this nature. Any reference material that was available was so biased or technical as to render it not suitable for counseling use. This information is more urgent now, with the possible implementation of Universal Military Training
\footnote{Editorial in The Daily Missoulian, October 21, 1951.} or a similar compulsory training program, than it has been at other times.

In order to clarify certain words and technical terms used in the body of this paper, the following list of definitions and abbreviations is provided for the reader.

**Air Force Specialty.** The name assigned to a particular job, such as: "Senior Surveyor," or "Apprentice Firefighter."

**Air Force Specialty Jobs.** It is the numerical code number given each Air Force Specialty, such as: "Senior Surveyor, (22250)" or "Apprentice Firefighter, (95130)."
Air Force Regulation. An official Air Force publication covering a specific subject giving detailed and technical information concerning the subject.

Airman. The title given all men and women in the United States Air Force with rank of Warrant Officer and below.

Airmen Classification Test Battery. An aptitude test given to all Airmen when inducted into the Air Force. The term will be explained in detail in Chapter II.

Army General Classification Test. The general ability test given all incoming Airmen. An explanation of the test will follow in Chapter II.

Career Field. A group of related jobs.

Career Field Sub-division. A systematic breakdown of each career field into each particularly closely related ladder of jobs.

Career Ladder. The normal progression route for an Airman to follow from Basic Airman through Chief Warrant Officer.

Job Progression Chart. A graphic presentation of the relationship between jobs within a career field and the normal advancement through the various jobs from bottom to top.

Lateral Positions. A term applied to horizontally expanded positions. The last digit in the ACS for all lateral positions ends with the number one (1), on the job progression charts. In this respect they can be differentiated from the parent position. All lateral positions, in a career ladder, have a great deal in common in job specifications, although quite often it is used to separate the technician from the supervisor in a particular field.
Occupational Area. A broad group of slightly related occupations gathered together under one heading, such as: "Personnel and Administration Occupational Area."

Pay grade. In the job progression chart, the term is used to indicate the most desirable rank for each position.

Following is a list of abbreviations that are to be found in the body of this thesis:

- **AFSC** .................................. Air Force Specialty Code
- **AFS** .......................... Air Force Specialty
- **AFR** .......................... Air Force Regulation
- **acc.** ........................ accessory
- **acft.** ........................ aircraft
- **asst.** ........................ assistant
- **A & E** ........................ Aircraft and Engines
- **blk.** ........................ block
- **const.** ........................ construction
- **comp.** ........................ component
- **CWO** ........................ Chief Warrant Officer
- **equip.** ........................ equipment
- **ele.** ........................ electrical
- **eng.** ........................ engines
- **engr.** ........................ engineer
- **flt.** ........................ flight
- **hyd.** ........................ hydraulic
- **instr.** ........................ instrument
- **maint.** ........................ maintenance
Methods of procedure and sources of data. The basic material for this study was accumulated while the author was attending the Air Force Classification and Assignment School, and while serving as Classification and Assignment Officer at the Great Falls Air Force base, Montana. This information was supplied from the following list of sources: Air Force Letters, Air Force Regulations, Training Project Outlines, Training Prospectus, Air Force Career Guidance News Letters, Dictionary of Occupational Titles, and guidance material found in the library at Montana State University. After collecting this information, it was revised, simplified, and brought up to date.

This information is presented pictorially in the form of the Job Progression Chart, which will be explained completely in Chapter II. A Job Progression Chart was prepared for each of the forty-three career fields.

A Job analysis sheet was prepared for each skilled position pictured on the Job Progression Chart to further amplify the information contained in the chart. This Job Analysis Sheet consists of a

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5Air Force Regulation, 35-400 to 500 series, Department of the Air Force, United States Government Printing Office, Washington, D.C. (Each Job Progression Chart was compiled from information obtained from Air Force Regulation, the number of which follows the Career Field title.)
job description, job requirements, related civilian jobs, desirable
civilian courses,\textsuperscript{6} and necessary aptitudes.\textsuperscript{7}

\textbf{Organization of the thesis.} Subsequent chapters will deal
with the development of the Air Force Career Field Program, as well
as the descriptions of various technical phases of the system.
Chapter III will explain the uses of the manual and recommend the
type of personnel who may benefit from the study.

The body of the thesis, Chapter IV, is the manual itself,
which is composed of the forty-three career fields, job progression
charts, and the job analysis sheets. A complete index to Chapter IV
is to be found on pages 18 - 21. Also, under Appendix A is a listing
of the career fields, according to the functional grouping concept of
the Airmen Career Program. Suggestions for further studies and
related studies will be made in Chapter V.

\textsuperscript{6}\textit{United States Navy Occupational Handbook}, Bureau of Naval
Personnel, Washington 25, D. C., November 1943, p. IX.

\textsuperscript{7}\textit{Air Force Letter}, 35-320, January 18, 1942, United States
CHAPTER II

DEVELOPMENT AND DESCRIPTION OF THE
ARMEN CAREER FIELD PROGRAM

Development of the present program. Prior to World War I, the training of the soldier was effected primarily on an apprentice-ship basis. When the mobilization period began for World War I it was apparent that the classification and training of fighting men were inadequate and inaccurate. In 1917 the Committee on Classification of Personnel in the Army\(^1\) was created by the War Department. This was the first organized program for classification and assignment. During this period, great strides were made in the area of testing and selecting. Nothing significant, in the personnel administration field, took place from the close of World War I until the early 1930's.\(^2\) At this time, the Mobilization Regulations were written, but due to the economic depression very little advanced research took place. These Mobilization Regulations, modified with revisions, were in force during the greater part of World War II. However, the inadequacies of the classification system were apparent during the war years. Following the demobilization of 1946, civilian and military personnel

\(^{1}\)History of Classification in the Armed Forces. Training Project Outline, Research Branch, Lowry Air Force Base, Colorado, p. 3.

\(^{2}\)Ibid., p. 4.
experts studied the problem thoroughly, and incorporated their recommendations in the Airmen Career Program. The totally new "Air Force Warrant Officer and Airman Career Program" compares favorably with the most up-to-date concepts of scientific personnel management.\(^3\)

The Warrant Officer and Airman Career Program was designed and set up to facilitate any future technical changes that involve radically new personnel classifications. In peacetime, with comparatively small numbers of Airmen in the service, the particular jobs remain the same, but fewer men are necessary in each category. At the time of writing, there are forty-three Career Fields listed, but ample space allotment has been reserved so that the number of Career Fields may be increased to one hundred as expansion needs dictate.

**Description of the Job Progression Chart.** The Job Progression Chart shows pictorially the normal advancement steps, starting with Basic Airman at the bottom and culminating at the top with Warrant Officer. The position blocks that are left blank are not at the present time classified, but allow room for further specialization at a future date. In the lower right-hand corner of each block will be found the Air Force Specialty Code number, which will be explained later. By following the single lines and the bold arrows, it is possible to determine the normal progression and also the various ladders into which Airmen may transfer. The Pay Grade ladder at the left of the chart indicates the rank which is commensurate with the position in the classified blocks.

\(^3\)Ibid., p. 5.
Air Force Technical Schools are indicated by the symbol -10- and also show the time in the Airman's career when he should attend that school. A time limit is set for each position and varies with the Career Fields and Schools, but it is possible for an Airman to progress from Basic Airman to Supervisor or Technician in a minimum of nine months. (This rapid promotion in skill level is an example only, and cited as such.)

Following the title of each Career Field is an Air Force Regulation (AFR) number. This AFR covers the basic classification and assignment information covering the particular Job Progression Chart and the job analysis sheet following the chart.

Explanation of the pay grade date. The ladder on the left of the Job Progression Chart is referred to as the Pay Grade Ladder. The rank number, therein, is only a recommended pay grade for each position block, and can be varied with the discretion of the Classification Boards, under advisement of current regulations and policies. However, effort is made to keep the pay grade equivalent to skill level or below. The rank for each pay grade is as follows: 1 — Basic Airman, 2 — Private First Class, 3 — Corporal, 4 — Sergeant, 5 — Staff Sergeant, 6 — Technical Sergeant, and 7 — Master Sergeant.

Description of Air Force Specialty Coding. The Air Force Specialty Code is to be found in the lower right-hand corner of each classified career position. The first two digits of the code indicate the Career Field, the third digit represents the subdivision of the field, the fourth digit defines the skill level, and the last digit refers to the lateral positions of each position block. An example of
this coding is as follows: AFSC—4315h, the digits (43) specify the Aircraft and Engine Maintenance Career Field; the third digit (1) indicates the position is in the first sub-division, which is Aircraft Maintenance. The fourth digit (5) indicates that the position calls for a skilled mechanic, called Senior Aircraft Electrician, and the last number (1) indicates that the position is the fourth lateral position of the skilled mechanic under the maintenance sub-division. Also, the first two digits in each AFSC represent the Basic Air Force Regulation governing the classification and assignment of personnel in the Aircraft and Maintenance Career Field. The (43) in this case, is also the last two digits of Air Force Regulation 35-43.

Description of the Airman Classification Test Battery. The Airman Classification Test Battery, given at the Induction Center, consists of tests designed to measure the important human aptitudes, interests, and background that will forecast probable success in the different career fields. The Airman Classification Test Battery, Form AC-15 as of 1949 consists of fourteen different tests. Among the fourteen tests are the following: Arithmetic Reasoning, Aviation Information, Background of Current Affairs, Biographical Inventory, Dial and Table Reading, Electrical Information, General Mechanics, Mechanical Principles, Memory of Landmarks, Numerical Operations, Pattern Comprehension, Speed of Identification, Tool Functions, and Word Knowledge. Each Air Force Specialty or Job requires its own unique pattern of aptitudes. Since many of the patterns are quite similar, those specialties requiring similar patterns of aptitudes

\[\text{References: Project Outline, number 31-11, Lowy Air Force Base, Colorado, not dated, p. 10.}\]
have been grouped into homogeneous clusters. The eight clusters are:
I—Technical, II—Clerical, III—Equipment Operator, IV—Radio Operator,
VI—Technician Specialty, VII—Services, VIII—Craftsman, and
VIII—Electronics. Different combinations of the fourteen tests are
used for each of the eight clusters. The aptitude clusters are graded
from one to nine, with nine being the greatest aptitude for the parti-
cular area. No minimum aptitude cluster score will be quoted for each
specialty, since this figure undergoes changes whenever the situation
changes in regard to availability of men and specialty openings.

Ibid., p. 22.
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At the indoctrination center, the General Classification Test (GCT) is administered to all inductees. This is a general intelligence test with a mean of 100 and a standard deviation of twenty.6

Description of cross-training within a Career Field. Provision is made for upgrading in skill level with Technical Schools, and on-the-job training. The general practice is for an Airman to be placed in on-the-job training in the next higher skill level job, in his career ladder, whenever he becomes proficient in the skill level at which he is working. It is also desirable, whenever possible, for the individual Airman to receive cross-training in the lateral positions of the career field in which he is working. This provides more flexibility in the career field for the Airman to gain further skill and experience and in turn allow greater opportunity for advancement.

In order to hold the program constant without excessive transfer from job to job, it is required that an Airman meet the Classification Board before changing to a different career field. Some transfer is encouraged in order to reward advancement in skills, education, training, and service needs, but this is held to a minimum to reduce the personnel problems and to effect stability in the Career Program.

CHAPTER III

SUGGESTED METHODS OF USING THE MANUAL

Personnel using the manual. The author intended the manual to be arranged so as to facilitate its reproduction in either a loose leaf, or monograph form to be circulated to the schools of the country. In schools that employ either a full-time or part-time counselor, the manual will serve as a reference for information in their contacts with students interested in the service, or who are about to be inducted. For those individuals who desire to make a service career, this manual will serve as a valuable guide for selection of civilian school courses prior to entry into the service. To instructors of courses in Occupational Information, this manual will aid materially as a source of Air Force Occupational Information, which otherwise would not be available.

The manual was intended for use in the high schools and junior colleges as a source of reliable information in a usable form for advising young men of the opportunities available to them in the Air Force. It is not intended in any way as a recruiting device, in order to persuade individuals to enlist in the Air Force without first investigating the other services. Also, the manual is not to be considered as an Air Force Authority, and is not to be quoted as such.

For the benefit of those persons who will be using this manual,
a complete alphabetical index by Career Fields will be found on pages 18 through 21. Attached as Appendix A is a functional grouping list of the Airman Career Program arranged by: (1) Occupational Areas, (2) Career Fields, and (3) Sub-divisions. By the use of the index and the functional grouping list it is possible to find any particular job or career field with rapidity, without the reader possessing a thorough understanding of the coding system in use in the career program.
CHAPTER IV

A MANUAL OF VOCATIONAL AND EDUCATIONAL TRAINING OPPORTUNITIES IN THE UNITED STATES AIR FORCE
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CRYPTANALYSIS Sub-division

Senior Cryptanalytic Aide (2050)

Job Description
Performs preliminary study of encrypted messages to determine system of encipherment or encodement, such as additive, substitution, transposition, or machine type. Establishes identifiable characteristics of individual cryptosystems. Determines language used in encryption from external features of message. Sorts traffic in homogeneous groups. Decodes or deciphers messages. Supervises subordinate cryptanalytic personnel.

Job Requirements
Requires intermediate formal and on-the-job training in principles and procedures of cryptanalysis.

Calls for a COT score of 130 minimum or equivalent.

Demands a high degree of concentration over long periods of time on details and severe expenditure of nervous energy. Requires intermediate knowledge of theory of cryptography, laws of mathematical probabilities, and statistics.

Imposes no physical effort or tiring movements.

Related Civilian Jobs
Statistician I
Cryptanalyst
Cryptographer
Statistical Clerk

Desirable Civilian School Courses
Algebra
Statistics
Typing
Radio

Necessary Aptitudes
Airmen Classification Test Battery
Technician Specialty
Senior Radio Traffic Analysis Aide (20250)

Job Description

Job Requirements
Requires intermediate formal and on-the-job training in radio traffic analysis principles and procedures.

Calls for a CQT score of 130 minimum or equivalent.

Demands a high degree of concentration over long periods of time. Requires intermediate knowledge of theory of radio communications. Calls for some dexterity, coordination of movement to sort, arrange and file analytical data.

Imposes no physical effort or tiring movements.

Related Civilian Jobs
Statistician I 0-35.51
Radio Operator 0-61.30
Statistical Clerk 1-36.01
Coding Clerk 1-36.05
Radio News Copyman 1-37.35

Desirable Civilian School Courses
Radio
Drafting
Geometry

Necessary Aptitudes
Airman Classification Test Battery
Technician Specialty
Language Technician (20370)

Job Description
Translates written material from one language to another. Produces complete translations of written or printed material in one language to a comparable document in another language. Interprets statements and conversations expressed in English or foreign language. Interrogates foreign personnel. Monitors foreign language radio transmissions. Distributes intelligence developed through collation, evaluation, and interpretation of collected information to all using activities. Establishes and maintains reference files. Supervises subordinate translators, voice interceptors, interpreters and interrogators, typists and clerks.

Job Requirements
Requires advanced formal and on the job training in at least one foreign language and considerable formal training in intelligence functions of area of language concerned. Calls for extended experience in interpreting and translating from or to a foreign language.

Calls for a GCT score of 110 minimum or equivalent.

Demands substantial degree of concentration on details of translation. Requires extended knowledge, including fluency in writing, of at least one foreign language, considerable knowledge of foreign and domestic military organization.

Imposes no physical effort or tiring movements.

Related Civilian Jobs
Interpreter 0-69.31
Translator 0-69.32

Desirable Civilian School Courses
Foreign Language
Typing
English
Social Studies

 Necessary Aptitudes
Airmen Classification Test Battery
Technician Specialty
Senior Intelligence Operations Specialist (20450)

Job Description
Collects intelligence information. Procures and records intelligence information from various established sources for the production of intelligence. Collates intelligence information, evaluates intelligence information, distributes reports and information to using activities as directed. Instructs personnel. Prepares briefing information to be used in briefing, including visual aids. Supervises clerical personnel.

Job Requirements
Requires intermediate formal or on the job training in intelligence procedures and application thereof, and elementary training in photo interpretation procedures. Calls for considerable experience in administrative duties and processing correspondence.

Calls for a COT score of 110 minimum or equivalent.

Demands moderate concentration on details and some expenditure of nervous energy to evaluate intelligence information and supervise clerical staff.

Imposes no physical effort or tiring movements.

Related Civilian Jobs
Investigator II 1-13-35
Statistical Clerk 1-36.01
Compiler 1-36.06
Policeman (Gov. sv.) 2-66.23

Desirable Civilian School Courses
English
Social Studies
Typing
Psychology

Necessary Aptitudes
Airman Classification Test Battery
Technician Specialty
PHOTO-INTERPRETATION Sub-division

Photo Interpretation Specialist (20451)

Job Description

Interprets aerial and ground photographs. Determines number, type and location of objects such as airfields, military installations, naval facilities, shipping, marshalling yards, docks, and oil storage tanks. Evaluates photointelligence information. Determines present or future value or need of information. Prepares reports indicating findings. Accomplishes reports, sketches, and diagrams. Produces map and aerial photo overlays to include all detail requested, such as location of airports, anti-aircraft positions, radar installations, and other enemy elements or activities not ordinarily shown on maps and charts. Prepares material for aircrew briefing and interrogation. Supervises photo interpretation specialists.

Job Requirements

Calls for advanced formal and on the job training in photo interpretation and photo intelligence operations, requires extended experience in interpretation of aerial photographs, in collecting, collating, interpreting, and evaluating photo intelligence information.

Requires a 3CT score of 110 minimum or equivalent.

Demands considerable degree of attention to perform complex tasks. Requires moderate expenditure of nervous energy. Requires advanced technical knowledge of photo interpretation procedure.

Imposes no physical effort or tiring movements.

Related Civilian Jobs

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Technical Intelligence Specialist (20530)

Job Description

Job Requirements
Requires advanced formal and on the job training in one or more particular technical specialty pertaining to aeronautics. Calls for extended experience in evaluating, analyzing, and interpreting technical information.

Requires CQT score 110 minimum or equivalent.

Requires substantial concentration with considerable expenditure of nervous energy. Calls for high degree of technical knowledge of foreign equipment and of systems associated with particular aeronautical specialty. Calls for considerable dexterity and coordination of movement in operating precision instruments.

Imposes moderate physical effort usually limited to use of light tools.

Related Civilian Jobs
Inspector, materials and processes 0-50.23
Inspector, lateral test 0-50.60
Investigator II 1-13.35
Aircraft Mechanic 5-50.120
Procurement Inspector (Acf. 1T) 7-03.010

Desirable Civilian School Courses
Algebra
Physics
Auto or Aircraft Mechanics

Necessary Aptitudes
Airman Classification Test Battery
Technician Specialty
CARTOGRAPHIC Sub-division

Senior Cartographic Specialist (22150)

Job Description
Plots projections and controls. Plots various types of projections such as Polyconic, Mercator, Lambert Conformal, Stereographic, Cylindric, and Transverse Mercator. Constructs nautical, aeronautical and target charts. Drafts topographic features such as contours, swamps, deserts, rivers and other natural features on map manuscripts by using conventional symbols. Checks or edits completed base manuscripts. Supervises subordinate cartographic specialists. Conducts on the job training.

Job Requirements
Requires considerable formal and on the job training in drafting, constructing projections, and in planimetry and topography.

Requires an ACT score of 110 minimum or equivalent.

Calls for moderate concentration and expenditure of nervous energy in computing geographic data such as constructing grid controls, plotting control points, and drafting detail.

Requires moderate dexterity, precision and coordination of movement with moderate response to sensory cues in operation standard and special drafting equipment.

Encounters slight elements detrimental to health such as eyestrain from using precision optical instruments.

Related Civilian Jobs
Map Draftsman 0-43.15
Cartographer 0-44.15
Map Maker 0-45.15

Desirable Civilian School Courses
Mechanical Drawing
Art (Perspective)
Geometry
Photography

Necessary Aptitudes
Airmen Classification Test Battery
Technical Specialty
Senior Photogrammetrist (22151)

Job Description
Plots and delineates data on aerial photographs. Computes depression angles and tile, and azimuths of aerial photographs. Uses stereoscope to facilitate establishing exact location of control points. Prepares manuscripts. Checks to assure that templates will fit scale of manuscript. Constructs paper templates. Transfers photographic detail to manuscript. Revises aeronautical charts. Builds or assembles aerial photographic mosaics. Maintains source material file. Supervises subordinate photogrammetrists in computing photogrammetry data.

Job Requirements
Requires considerable formal and on the job training in various phases of photogrammetry such as, plotting data on photographs; computing tilt, depression angles and azimuths. Calls for considerable experience in care and use of photogrammetric equipment, measuring and computing chart and map data from aerial photographs.

Requires COT score of 110 minimum or equivalent.

Calls for moderate concentration and expenditure of nervous energy in operating such equipment as stereocomparographs, multilens projectors, photoalidades, and making computations to determine correct scale.

Involves slight physical effort.

Related Civilian Jobs
Draftsman 0-46.15
Cartographer 0-46.15
Draftsman Topographical 0-46.20

Desirable Civilian School Courses
Photography
Art
Technical Drawing

Necessary Aptitudes
Airmen Classification Test: Fatigery
Technician Specialty
Senior Surveyor (22250)

Job Description
Performs general classes of surveying such as cadastral, constructions and geodetic surveys. Determines latitude, longitude and azimuth by use of astrolabe, zenith camera, theodolite, chronometer and radio. Development triangulation system to prescribed accuracy. Operates theodolite, transit, level, tapes and related equipment where difficult operational problems may be anticipated and accuracy requirements are strict. Calculates, adjusts and prepares surveying data by mathematical processes for use in mapping and charting activities. Computes map projections and plots geographic positions of survey points androphan controlled photographs.

Job Requirements
Requires considerable formal and on the job training in basic surveying and computing. Calls for substantial experience in surveying and surveying computing obtained in Air Force or equivalent civilian experience.

Requires OJT score of 110 minimum or equivalent.

Requires moderate concentration. Calls for substantial knowledge of mathematics such as geometry, algebra, plane and spherical trigonometry, use of natural and logarithmic tables, slide rules and computing machines.

Involves substantial physical exertion. Calls for frequent exposure to elements.

Related Civilian Jobs
Surveyor 0-Cl.10
Rodman II 0-Cl.50
Chairman, Surveyor 7-57.200

Desirable Civilian School Courses
Algebra
Geometry
Trigonometry
Mechanical Drawing

Necessary Aptitudes
Airman Classification Test Battery
Technician Specialty
Senior Aerial Photographer (23150)

Job Description

Prepares plans and equipment for photographic mission. Prepares flight maps, makes necessary mathematical calculations, and draws flight lines to be flown on maps. Installs equipment aboard aircraft. Operates aerial cameras and allied equipment from aircraft in flight to secure various types of photographs as required by type of mission. Performs mapping and charting missions. Determines shutter speeds and diaphragm openings by exposure meter or experience. Performs organizational maintenance on cameras and auxiliary equipment. Performs photographic laboratory work, such as processing film, contact and projection printing, mixing chemicals, and assembling reconnaissance strips.

Job Requirements

Calls for considerable formal and on the job training in basic and aerial photography. Requires considerable experience in performing all types of aerial photographic missions, such as photographing, charting, and reconnaissance.

Requires OCT score of 110 minimum or equivalent.

Requires considerable dexterity, precision, and coordination of movement with steady response to sensory cues to accomplish such tasks as loading film in total darkness and adjusting cameras.

Must be physically qualified for flight duty. Calls for frequent exposure to flying hazards in accomplishing aerial photographic missions.

Related Civilian Jobs

Photographer, Aerial  0-56,01
Photographer, News  0-56,31
Darkroom Technician  5-36,510

Desirable Civilian School Courses

Chemistry
Physics
Photography

Necessary Aptitudes

Airmen Classification Test Battery
Technician Specialty
Senior Photographer (23250)

Job Description

Job Requirements
Requires considerable formal and on the job training in basic photography. Requires considerable work experience in camera operation.

Requires CQT score of 100 minimum or equivalent.

Calls for moderate amount of concentration and expenditure of nervous energy. Requires considerable knowledge of photography. Requires thorough knowledge of composition, tone values, use, care and storage of photographic equipment.

Requires acceptable dark adaptation or night vision test findings. Involves moderate exposure to toxic chemicals and fumes.

Related Civilian Jobs
Photographer, finisher 0-56.1
Photographer, commercial 0-56.11
Photographer, portrait 0-56.21
Darkroom man 0-56.510

Desirable Civilian School Courses
- Chemistry
- Physics
- Art (General)
- Photography

Necessary Aptitudes
Airmen Classification Test Battery
Technician Specialty
Senior Motion Picture Photographer (23350)

Job Description
Takes motion pictures, black and white and color indoors and outdoors, and performs laboratory work to finish negatives and prints. Studies assignment and selects equipment and supplies. Tests operates camera and inspects equipment for serviceability. Performs motion picture processing, and other laboratory functions to accomplish production of pictures. Performs preventive maintenance and minor repairs on motion picture cameras and equipment. Supervises subordinate motion picture photographers.

Job Requirements
Requires considerable formal training in basic photography and on the job training in motion picture photography.

Requires OCT score of 110 minimum or equivalent.

Calls for moderate concentration and expenditure of nervous energy in performing such tasks as photographing scenes and subjects. Demands considerable dexterity, precision, and coordination of movement with steady response to sensory cues to accomplish such tasks as following movement of subject with camera, coordinating sound effects with sound personnel.

Requires acceptable dark adaptation or night vision test findings.

Related Civilian Jobs
Cameraman (Mot. Pic.) 0-06.41
Motion Picture Projectionist 5-05.010
Editor, News Reel 0-06.26

Desirable Civilian School Courses
Art
Photography
Chemistry
Physics

Necessary Aptitudes
Airmen Classification Test Battery
Technician Specialty
Senior Motion Picture Specialist (2351)

Job Description
Operates and performs organisational maintenance on motion picture recording and transmitting equipment. Operates sound recording and transmission equipment. Instructs dialogue participants in technique of speaking before camera and microphone. Adjusts and maintains sound and projection equipment. Determines correct exposure lamp current for film used by running exposure lamp current-density test at various lamp currents. Cuts and splices film. Assembles material needed for completion of projects, such as sound effects, scene and sequences. Supervises subordinate motion picture specialists in operation of sound recording and transmitting.

Job Requirements
Requires considerable on-the-job training; in basic photography and in operation and care of sound equipment.

Requires OCT score of 100 minimum or equivalent.

Calls for considerable coordination of movement with steady response to sensory cues in performing such tasks as listening to sounds and adjusting controls to provide balance between different types of sound and simultaneously coordinating sound with motion picture camera.

Involves considerable physical effort in moving and setting up sound equipment.

Related Civilian Jobs
Sound Mixer; Soundman (Motion Picture) 0-66.14
Motion Picture Machine Operator 5-55.010
Sound Cutter; editor, sound 0-66.15
Film splicer 7-86.060

Desirable Civilian School Courses
Physics
Electricity
Photography

Necessary Aptitudes
Airmen Classification Test Battery
   Electronics
   Technician Specialty

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WEATHER EQUIPMENT Sub-division

Special Equipment Technician (25160)

Job Description
Operates and maintains special weather equipment and associated electronic devices. Compiles and transmits scientific data. Installs weather equipment at site in accordance with engineering plans. Encodes data obtained for transmission to using agencies. Maintains filing system for classified correspondence, data sheets and messages. Supervises special weather equipment technicians.

Job Requirements
Requires extended formal and on the job training in techniques of operation and maintenance of special weather equipment.

Calls for OJT score of 110 minimum or equivalent.

Requires considerable knowledge of electronic circuits and circuits components.

Requires moderate dexterity and coordination of movement to operate weather equipment while in flight.

Must pass flight physical required of all aircrew members. Involves extreme exposure to hazardous flight conditions while investigation violent storm areas.

Related Civilian Jobs
Weather Observer 0-66.89

Desirable Civilian School Courses
Electricity
General Shop
Physics

Necessary Aptitudes
Airmen Classification Test Battery
Technical
Equipment Operator
Technician Specialty
Electronics
Airborne Weather Equipment Operator (25161)

Job Description
Operates meteorological geophysical equipment aboard weather reconnaissance aircraft. Performs pre-flight inspection and operation equipment, such as turbulence sonde, dropsondes, rocket type radiosonde ejection systems, and cloud base and top indicator. Operates dropsonde equipment, cloud base and top indicators and visually estimates distance from cloud to aircraft. Performs supplementary duties, such as gunner and scanner.

Job Requirements.
Requires considerable formal or on the job training in techniques of operating and maintaining airborne weather equipment.

Calls for GCT score of 110 minimum or equivalent.

Requires considerable knowledge of electronic circuits and circuits components.

Requires moderate dexterity and coordination of movement to operate weather equipment while in flight.

Must pass flight physical required of all aircrew members. Involves extreme exposure to hazardous flight conditions while investigation violent storm areas.

Related Civilian Jobs
Weather Observer

Desirable Civilian School Courses
Electricity
General Shop
Physics

Necessary Aptitudes
Airmen Classification Test Battery
Mechanical
Equipment Operator
Technician Specialty
Electronics

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WEATHER EQUIPMENT Sub-division

Senior Ground Weather Equipment Operator (25150)

Job Description

Job Requirements
Requires considerable formal or on the job instruction in techniques of operating and maintaining weather equipment.

Requires CCT score of 110 minimum or equivalent.

Requires considerable knowledge of electronic circuits and circuit components, such as vacuum tubes, capacitors, and resistors and principles of weather equipment operation. Requires limited physical effort. Involves occasional exposure to hazardous electric currents of high voltage.

Related Civilian Jobs
Weather Observer 0-66.58

Desirable Civilian School Courses
Physics
General Shop
Electricity

Necessary Aptitudes
Airmen Classification Test Battery
Electronics
Equipment Operator
Technician Specialty
Senior Weather Observer (25350)

Job Description
Observes and records weather elements and performs organizational maintenance on weather instruments. Studies sky to determine type, height and amount of clouds. Estimates visibility by observing visibility of objects of known distance. Measures speed and direction of winds aloft by releasing hydrogen-inflated balloon, following its path with theodolite. Decodes weather data and plots information on maps, charts, and graphs. Summarizes individual observations to prepare periodic historical weather records. Supervises subordinate weather personnel. Operates facsimile and teletype equipment.

Job Requirements
Requires considerable formal or on-the-job training in methods of weather observing and analysis of data obtained.

Calls for a CCT score of 110 minimum or equivalent.

Requires considerable knowledge of the origin of weather development. Requires considerable dexterity, precision and coordination of movement.

Requires slight physical exertion in use of small hand tools.

Related Civilian Jobs
Weather Observer 0-66,38

Desirable Civilian School Courses
Electricity
Physics

Necessary Aptitudes
Airmen Classification Test Battery
Equipment Operator
Technician Specialty
Electronics
WEATHER FORECASTING Sub-division

Climatographer (25231)

Job Description
Collects, analyzes, computes, catalogs, and summarizes historical weather data. Accomplishes climatological research. Constructs charts and graphs. Determines most effective graphic method of portraying weather and allied data. Conducts surveys of specified geographical areas to collect information, such as soil types, drainage conditions.

Job Requirements
Requires considerable formal training in climatological research.

Calls for a OGT score of 110 minimum or equivalent.

Requires considerable dexterity and precision of hand movements to construct charts and graphs.

Calls for no physical effort or tiring movements in performance of normal duties.

Related Civilian Jobs
Meteorologist 0-66.87
Weather Forecaster 0-35.68

Desirable Civilian School Courses
Physics
Algebra

Necessary Aptitudes
Airmen Classification Test Battery
Equipment Operator
Technician Specialty
Electronics
AIR OPERATIONS Sub-division

Senior Air Operations Specialist (27150)

Job Description
Performs aircraft dispatching, scheduling, and functions relating to administration of air operations office. Examines flight clearances prior to submission to clearing authority for proper entries and conformance with prescribed flight rules. Monitors movement of scheduled and unscheduled aircraft passengers and cargo to insure maximum utilization of block space. Maintains current flight information. Maintains current file of aircraft flying regulations and flight data. Arranges for test pilots to slow-time and test over-hauled aircraft.

Job Requirements
Calls for considerable formal and on the job training, and considerable experience in aircraft dispatching, scheduling, loading, weight and balance, weather data flight technical orders, and over-all limitations of all aircraft.

Requires CQT score of 110 minimum or equivalent.

Calls for substantial concentration in checking flight plans. Calls for considerable expenditure of nervous energy. Requires considerable knowledge of and the use of computers, load adjusters, slip sticks.

Calls for limited physical dexterity.

Related Civilian Jobs
Airport-Control Operator 0-61.60
Aircraft-Log Clerk 1-19.03
Airplane Dispatch Clerk 1-19.01
Airway Traffic Controller Dispatcher 0-61.61

Desirable Civilian School Courses
Radio
Algebra
Typing

Necessary Aptitudes
Airmen Classification Test Battery
Clerical
Radio Operator
CONTROL TOWER OPERATOR Sub-division

Senior Control Tower Operator (27251)

Job Description
Directs aircraft approaching, taking off, and operating on landing area. Operates communications and associated equipment. Issues clearances and pertinent information to pilots, including VHF/DF. Operates radio telephone and displays visual signals to instruct aircraft pilots taxiing in landing area, preparing for take off, operating in traffic pattern, or operating under instrument conditions. Copies and relays communications to pilots. Relays air traffic control clearances, and information to pilots as instructed by air traffic control center.

Job Requirements
Requires considerable formal and on the job training in control tower operations prior to during adjustment to work. Calls for considerable experience in control tower operations in either military or civilian status.

Calls for COT score of 110 minimum or equivalent.

Requires high degree of attention to complex and varied elements and great expenditure of nervous energy to control aircraft traffic on ground and in air during periods of heavy traffic and under adverse weather conditions.

Calls for slight physical effort limited to operation of radio transmitting and receiving equipment.

Related Civilian Jobs
Airport-Control Operator 0-61.60

Desirable Civilian School Courses
Radio
Electricity
Speech

Necessary Aptitudes
Airman Classification Test Battery
Clerical
Radio Operator
AIRCRAFT CONTROL AND WARNING Sub-division

Senior Aircraft Control and Warning Operator (27350)

Job Description
Observes and interprets visual presentation on radar scopes or displays information relative to radar plotting. Observes and interprets reflections, displayed on radar oscilloscopes indicating presence, identity, altitude, direction, and range of surface or airborne targets. Reports interference from other radar or enemy countermeasures and institutes proper anti-countermeasures techniques. Supervises aircraft control and warning operators.

Job Requirements
Requires substantial formal, informal and on the job training in ground radar operations and aircraft control and warning procedures.

Calls for a GCT score of 100 minimum or equivalent.

Requires substantial concentration, with considerable expenditure of nervous energy in observing and reporting aircraft in heavily congested areas. Requires considerable knowledge of principles of detection of aircraft by radar. Calls for considerable dexterity and precision and coordination of movement, with steady responses to sensory cues in order to transcribe aircraft control and warning information on plotting.

Requires slight physical effort.

Related Civilian Jobs
None

Desirable Civilian School Courses
- Electricity
- Radio
- Geometry
- Physics

Necessary Aptitudes
Airmen Classification Test Battery
- Clerical
- Radio Operator
AIRCRAFT CONTROL AND WARNING Sub-division

Senior Airborne Radar Observer (27351)

Job Description
Operates and performs inflight maintenance on airborne radar equipment. Performs flying duty as Airborne Radar Observer. Operates radar equipment by setting switches and controls during flight in order to obtain proper indications on scopes. Operates loran equipment. Performs preventive and inflight maintenance. Takes wind drifts and ground speeds on instructions from pilot or navigator. Obtains fixes by use of beacons, known landing targets.

Job Requirements
Requires considerable formal, informal and on the job training in operation and minor maintenance of airborne search and navigational radar equipment.

Calls for a CCT score of 100 minimum or equivalent.

Requires moderate dexterity to operate airborne radar equipment.

Must meet minimum physical standards for flight crew duty. Presents considerable exposure to elements of unpleasantness and frequent exposure to health and safety hazards created by frequent aerial flights.

Related Civilian Jobs
None

Desirable Civilian School Courses
General Shop
Electricity
Radio
Physics

Necessary Aptitudes
Airmen Classification Test Battery
Clerical
Radio Operator
Electronics
COMMUNICATIONS CAREER FIELD

COMMUNICATIONS OPERATIONS
RFSC SUPERVISOR 29200

COMMUNICATIONS CENTER SUPERVISOR
RFSC 29120

CRYPTOGRAPHIC OPERATIONS SUPERVISOR
RFSC 29270

RADIO OPERATIONS SUPERVISOR
RFSC 29370

SENIOR COMMUNICATION CENTER SPECIALIST
RFSC 29150

SENIOR CRYPTOGRAPHIC OPERATOR
RFSC 29250

SENIOR AIRCRAFT RADIO OPERATOR
RFSC 29150

SENIOR GROUND RADIO OPERATOR
RFSC 29351

SENIOR RADIO INTERCEPT OPERATOR
RFSC 29352

APPRENTICE COMMUNICATIONS CENTER SPECIALIST
RFSC 29130

APPRENTICE CRYPTOGRAPHIC OPERATOR
RFSC 29230

APPRENTICE AIRCRAFT RADIO OPERATOR
RFSC 29130

APPRENTICE GROUND RADIO OPERATOR
RFSC 29331

APPRENTICE RADIO INTERCEPT OPERATOR
RFSC 29332

BASIC COMMUNICATIONS CENTER COURSE

BASIC CRYPTOGRAPHIC OPERATOR COURSE

BASIC RADIO OPERATORS COURSE

COMMUNICATIONS OPERATOR WELDERS
RFSC 29110

BASIC AIRMAN
RFSC 00210

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Senior Communications Center Specialist (29150)

Job Description
Operates switchboard, teletype, and facsimile equipment and processes and distributes incoming and outgoing messages received at communications center. Operates manual and semi-automatic teletypewriter equipment to receive, process and transmit messages. Performs minor maintenance on teletype equipment. Receives and transmits printed or graphic material on facsimile equipment. Operates telephone switchboards. Answers calls and makes necessary connections to complete circuit. Supervises subordinate communications center specialists.

Job Requirements
Requires limited formal training and considerable on the job training in communications center functions.
Requires GCT score of 100 minimum or equivalent.
Calls for considerable concentration in operation of teletype. Calls for moderate dexterity and coordination of movement to operate teletype and switchboard equipment.
Calls for slight physical exertion in communications center work. Imposes no elements detrimental to health and safety.

Related Civilian Jobs
- Central Office Operator 1-42.01
- Service Observer 1-42.03
- Teletype Operator 1-37.33
- Phototadio Operator 0-61.70

Desirable Civilian School Courses
- Electricity
- Typing
- English
- Speech

Necessary Aptitudes
- Airmen Classification Test Battery
- Radio Operator
CRYPTOGRAPHIC OPERATIONS Sub-division

Senior Cryptographic Operator (29250)

Job Description
Operates cryptographic devices to encryptograph and decryptograph classified messages. Encryptographs and decryptographs messages using mechanical or electromechanical devices. Performs preventive maintenance. Performs security duties. Destroys classified material including messages and work sheets; supervises subordinate cryptographic operators and apprentices.

Job Requirements
Requires considerable formal, informal, and on the job training in cryptographic activities. Calls for considerable experience in message handling techniques.

Calls for a GCT score of 100 minimum or equivalent.

Requires substantial concentration with considerable expenditure of nervous energy. Requires moderate dexterity and precision and coordination.

Calls for slight physical exertion and imposes mild elements of unpleasantness with slight safety hazards from electric shock.

Related Civilian Jobs
Teletype Operator 1-37.33
Cryptographer II 1-35.40
Cryptanalyst 0-68.33

Desirable Civilian School Courses
Business Machines
Electricity

Necessary Aptitudes
Airmen Classification Test Battery
Radio Operator
Electronics
RADIO OPERATIONS Sub-division

Senior Aircraft Radio Operator (29350)

Job Description
Operates aircraft radio equipment to conduct air to ground communications. Inspects and operates radio equipment in aircraft. Transmits and receives voice and International Morse code between aircraft and ground stations. Transmits requests for and receives in-flight clearance, traffic control and tactical instructions, weather and navigational information. Supervises aircraft radio operators and apprentices.

Job Requirements
Requires considerable formal, informal, and on the job training in air-ground radio-telephone and radio-telegraph operation.

Demands OCT score of 100 minimum or equivalent.

Calls for steady concentration with considerable expenditure of nervous energy in conducting air-ground communications under adverse conditions created by aircraft instability, weak radio, signals, radio interference and electrical disturbances.

Must meet minimum physical standards for flight crew members. Presents considerable exposure to elements of unpleasantness and frequent exposure to health and safety hazards created by frequent aerial flights.

Related Civilian Jobs
Radio Operator II 0-61.33
Radio Operator, Flight 0-61.32
Radio News Copyman 1-37.35

Desirable Civilian School Courses
Electricity
Radio
Speech

Necessary Aptitudes
Airmen Classification Test Battery
Radio Operator
Electronics
Senior Ground Radio Operator (29351)

Job Description
Operates radio transmitting and receiving equipment in ground radio stations. Transcribes voice and International Morse code transmissions from aircraft and ground stations by typewriter or hand printing. Transmits automatically by use of perforated tape and automatic keying equipment. Determines bearing of aircraft or ground stations by interpreting radio signals received on direction finding equipment. Supervises ground radio operator and apprentices.

Job Requirements
Requires considerable formal, informal, and on the job training in radio-telephonic and radio-telegraph operation. Demands considerable experience, either civilian or military, in radio operation.

Calls for a CCT score of 100 minimum or equivalent.

Demands steady concentration and moderate dexterity to transmit and receive International Morse code.

Requires slight physical effort and some exposure to safety hazards.

Related Civilian Jobs
Radio Operator II 0-61.33
Radio Operator, Flight 0-61.32
Radio Operator, Apprentice 0-69.47

Desirable Civilian School Courses
Algebra
Electricity
Radio
Speech

Necessary Aptitudes
Airmen Classification Test Battery
Radio Operator
Electronics
RADIO OPERATIONS Sub-division

Senior Radio Intercept Operator (29353)

Job Description

Job Requirements
Requires limited formal, informal, and on the job training. Calls for moderate experience in operating radio equipment either military or civilian.

Calls for a OCT score of 100 minimum or equivalent.

Demands considerable attention and concentration, and moderate technical knowledge of functions and operations of code intercept equipment.

Calls for little physical effort and some exposure to safety hazards.

Related Civilian Jobs
- Radio Operator II  0-61.33
- Radio Dispatcher  0-61.70
- Radio Message Router  1-49.90

Desirable Civilian School Courses
- Electricity
- Speech
- Radio
- Typing

Necessary Aptitudes
- Airmen Classification Test Battery
  - Radio Operator
  - Electronics
RADIO MAINTENANCE Sub-division

Senior Radio Mechanic (Airborne Equipment) (30150)

Job Description
Installs, maintains, and repairs airborne radio and related equipment. Performs daily maintenance on aircraft radio and related equipment. Tunes transmitters and receivers, including changing crystals, to obtain maximum performance. Makes and installs bench mock-ups and other test equipment. Maintains inspections and maintenance records and submits records pertaining to operation of section. Supervises subordinate radio maintenance personnel.

Job Requirements
Calls for considerable formal and on the job training in radio maintenance.

Requires a CQT score of 110 minimum or equivalent.

Requires substantial concentration and expenditure of nervous energy to adjust and repair intricate radio equipment. Calls for intermediate knowledge of electricity and interpretation of schematic drawings. Calls for considerable dexterity, precision and coordination of movement.

Exercises moderate physical exertion and exposure to elements detrimental to comfort and safety.

Related Civilian Jobs
Radio Mechanic II 5-33.447
Radio Repairman I 5-33.411

Desirable Civilian School Courses
Radio
Electricity
Physics

Necessary Aptitudes
Airmen Classification Test Battery
Electronics
Mechanical
RADIO MAINTENANCE Sub-division

Senior Radio Mechanic (Ground Equipment) (30151)

Job Description
Installs, maintains, and repairs all types of ground radio and related equipment. Accomplishes periodic and other inspections to ground radio equipment. Performs preventive maintenance. Determines malfunction of equipment such as ground radio communications center transmitters and receivers, air navigational aids, wire recorder-reproducing, and related equipment. Supervises subordinate personnel.

Job Requirements
Calls for considerable formal and on the job training in installation, repair, and maintenance of radio equipment.

Requires a GCT score of 100 minimum or equivalent.

Calls for considerable concentration to make minute adjustments and repairs on intricate radio equipment. Requires an immediate knowledge of testing, tuning, adjusting, repairing and maintaining LF and VHF radio ranges, radio homing beacons; LF, HF, VHF, and UHF. Demands substantial dexterity, precision, and coordination of movement to work on intricate radio equipment.

Exposes to substantial hazards to health and safety in installation of heavy radio equipment on difficult terrain.

Related Civilian Jobs
Radio Mechanic II  5-83.147
Radio Repairman I  5-83.111

Desirable Civilian School Courses
Radio
Electricity
Physics

Necessary Aptitudes
Electronics
Mechanical
RADAR MAINTENANCE Sub-division

Senior Radar Mechanic (Ground Equipment) (30251)

Job Description
Installs, maintains, and repairs fixed or mobile ground radar equipment. Checks equipment visually and with tools and test instruments for serviceability before installation. Conducts detailed tests of installed equipment for proper assembly and compliance with Technical Orders. Conducts proper shut-down procedure. Performs scheduled preventive maintenance such as inspecting for discolored, burnt, or cracked resistors and condensers. Modifies ground radar sets. Records operational results of ground radar equipment. Supervises subordinate personnel.

Job Requirements
Requires considerable formal and on-the-job training in electronics and ground radar maintenance techniques.

Calls for a COT score of 110 minimum or equivalent.

Requires a substantial amount of concentration with occasional expenditure of nervous energy while working on intricate radar equipment.

Calls for considerable degree of dexterity, precision, and coordination of movement to assemble or adjust small parts, align components, and repair complex equipment.

Involves frequent exposure to elements detrimental to health and safety such as inclement weather and high voltage when working on radar equipment.

Related Civilian Jobs
Radio Mechanic II 5-83.477
Radio Repairman I 5-83.411

Desirable Civilian School Courses
Electricity
Radio
Physics

Necessary Aptitudes
Airmen Classification Test Battery
Electronics
Mechanical
RADAR MAINTENANCE Sub-division

Senior Radar Mechanic (Airborne Equipment) (30250)

Job Description
Installs, repairs, and maintains airborne radar and related equipment. Conducts detailed tests of installed equipment for proper assembly of components and compliance with technical orders. Places in operation, tunes, adjusts and aligns components to obtain maximum efficiency. Modifies airborne radar and related equipment in accordance with notification work orders. Records operational results of airborne radar equipment. Supervises and instructs personnel in ground radar maintenance and on the job training.

Job Requirements
Requires considerable formal and on the job training in airborne radar maintenance.

Calls for a GCT score of 110 minimum or equivalent.

Requires considerable concentration and substantial knowledge of the principles of radar, familiarity with airborne radar equipment. Calls for considerable dexterity, precision and coordination of movements to assemble and adjust small parts.

Requires moderate physical effort and moderate exposure to elements detrimental to safety.

Related Civilian Jobs
Radio Mechanic II
Radio Repairman I

Desirable Civilian School Courses
Radio
Electricity
Physics

Necessary Aptitudes
Airmen Classification Test Battery
Electronics
Mechanical
Command Missile Technician (31170)

Job Description
Installs, tests, maintains, and repairs aircraft, missile and ground command electronic guidance and related equipment. Resolves and performs modifications on existing equipment. Analyses and isolates system malfunctions. Resolves and effects modifications of air and ground command electronic guidance systems and related equipment. Maintains and repairs special tools and testing devices. Maintains equipment performance records. Supervises and instructs subordinate personnel.

Job Requirements
Requires considerable formal and on the job training in theory, operation and maintenance of command electronic guidance equipment. Factory training on newly developed equipment is desirable.

Calls for OCT score of 110 minimum or equivalent.

Requires substantial concentration and expenditure of nervous energy in instructing personnel in techniques and procedures of command electronics guidance system maintenance and repair. Requires considerable dexterity, precision and coordination of movement to assemble and adjust small parts, align components and repair command electronic systems.

Calls for moderate physical effort and occasional exposure to hazards to health and safety such as severe burns or shock from high voltage and radio frequency equipment.

Related Civilian Jobs
None

Desirable Civilian School Courses
Electricity
Radio
Machine Shop

Necessary Aptitudes
Airman Classification Test Battery
Electronics
AUTOMATIC MISSILE Sub-division

Automatic Missile Technician (31270)

Job Description
Installs, tests, maintains, and repairs missile and aircraft automatic electronic guidance and related equipment. Resolves and performs modifications on existing equipment. Adjusts or replaces defective components such as auto-pilot units, computers and selstyles, places, connects and interwires components to complete assembly. Analyzes and isolates system malfunctions. Effects modifications of autonomous guidance and related equipment. Maintains and repairs special tools and testing equipment. Contributes to boards and organizations set up to do research and development on missile automatic electronics guidance systems. Supervises and instructs subordinate personnel.

Job Requirements
Requires considerable formal and on the job training in theory, operation and maintenance of automatic electronic guidance equipment. Factory training on newly developed equipment is desirable.

Calls for a GCT score of 110 minimum or equivalent.

Requires thorough knowledge of test equipment applicable to maintenance needs, such as analyzers, frequency meters, voltmeters, and other precision electrical and electronic measuring instruments and devices. Calls for considerable dexterity, precision, and coordination of movement in using hand tools.

Necessitates moderate physical effort and calls for occasional exposure to hazards to health and safety.

Related Civilian Jobs
None

Desirable Civilian School Courses
Electricity
Radio
Physics
Machine Shop

Necessary Aptitudes
Airmen Classification Test Battery
Electronics

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PRESET MISSILE Sub-division

Preset Missile Technician (31370)

**Job Description**
Installs, maintains, and repairs guided missile electromechanical preset guidance and related equipment. Resolves and performs modifications on existing equipment. Conducts detailed tests of installed equipment to ascertain that components are assembled in compliance with appropriate technical orders. Analyzes and isolates system malfunctions, maintains and repairs special tools and testing instruments. Maintains equipment performance records. Supervises and instructs subordinate mechanics.

**Job Requirements**
Requires considerable formal and on the job training in theory, operation and maintenance of electromechanical preset guidance equipment. Factory training is desirable.

Calls for a GCT score of 110 minimum or equivalent.

Requires substantial knowledge of theory of electromechanical preset guidance equipment such as electrical control circuits and automatic pilots, navigational devices, mechanical and electrical altitude selectors and circuits. Requires basic knowledge of mathematics necessary to compute algebraic formulas, plane geometry, and trigonometry.

Requires considerable dexterity, precision and coordination of movement in using such hand tools as are necessary to complete fine adjustments.

**Related Civilian Jobs**
None

**Desirable Civilian School Courses**
Radio
Electricity
Physics
Algebra
Geometry

**Necessary Aptitudes**
Airmen Classification Test Battery
Electronics
MISSILE INSTRUMENTATION Sub-division

Missile Instrumentation Technician (31470)

Job Description
Installs, maintains and repairs guided missile instrumentation equipment including photographic, optical, and electronic missile data equipment. Resolves and performs modifications on existing equipment. Adjusts and replaces defective units such as cameras, mechanical recorders, transmitters, receivers, telemetering sets and control boxes. Repairs, overhauls and maintains airborne and ground missile data equipment. Effects modifications on missile data equipment. Maintains equipment performance records. Supervises and instructs subordinate personnel.

Job Requirements
Requires substantial formal and on the job training in theory of missile instrumentation systems. Factory training is desirable.

Calls for a GCT score of 110 minimum or equivalent.

Requires substantial concentration and considerable expenditure of nervous energy in instructing personnel in techniques and procedures of missile instrumentation system repair and maintenance.

Calls for thorough knowledge of reading and interpreting blueprints, technical directives, wiring diagrams and schematic drawings.

Necessitates moderate physical exertion and occasional exposure to hazards to health and safety.

Related Civilian Jobs
None

Desirable Civilian School Courses
Radio
Electricity
Algebra
Trigonometry
Physics

Necessary Aptitudes
Airmen Classification Test Battery
Electronics
BOMB NAVIGATION SYSTEMS Sub-division

Senior Bomb-Navigation Systems Mechanic (32150)

Job Description

Job Requirements
Requires considerable formal and on the job training in the maintenance and repair of bomb-navigation system components.

Calls for a COT score of 110 minimum or equivalent.

Demands considerable concentration and expenditure of nervous energy for limited periods. Calls for considerable dexterity and coordination in testing, assembling and disassembling intricate mechanical and electrical components.

Demands normal color perception to identify color coded electrical wiring and other components. Calls for moderate physical effort.

Related Civilian Jobs
None

Desirable Civilian School Courses
Mechanical Drawing
Electricity
Machine Shop

Necessary Aptitudes
Airmen Classification Test Battery
Mechanical
Electronics
FIRE CONTROL SYSTEMS Sub-division

Senior Fire Control Systems Mechanic (32250)

Job Description
Analyses malfunctions; performs organizational and field maintenance on fire control system. Inspects operational condition of system by operating components, controls, and safety devices necessary to effect total operational efficiency. Determines scope of repair or adjustment necessary to correct faulty operation. Maintains fire control system. Assembles components; zeros, aligns, harmonizes, boresights, and makes final bench check of repaired units. Conducts preflight inspections and readiness munitions release system. Supervises subordinate fire control system mechanics.

Job Requirements
Requires moderate formal and considerable on the job training in fire control system maintenance. Requires considerable experience in electrical and mechanical repair of gun-bomb-rockets sights.

Calls for a GCT score of 110 minimum or equivalent.

Calls for substantial concentration and considerable expenditure of nervous energy for limited periods to analyze, isolate and repair fire control system malfunctions. Demands considerable dexterity and coordination of movement in assembly of mechanical and electrical components.

Demands normal color perception to identify color-coded electrical wiring and related components.

Related Civilian Jobs
None

Desirable Civilian School Courses
- Electricity
- Machine Shop
- Mechanical Drawing
- Algebra
- Geometry

Necessary Aptitudes
- Airmen Classification Test Battery
  - Mechanical
  - Electronics
Senior Turret Systems Mechanic (32350)

Job Description
Isolates unit malfunctions and performs organizational and field maintenance on turret system assemblies, including gunlaying radar. Inspects defective units, such as thyatron controllers, computers, and modulators to isolate malfunctions. Checks and repairs and adjusts components, such as rotating machines, selsyns, trigger panels, relays, and modulators. Maintains and repairs gunlaying equipment and systems, including airborne radar sights, machine guns, gun mounts, and turrets. Readies turret system for operational missions. Supervises subordinate turret system and system component mechanics. Conducts on the job training.

Job Requirements
Demands moderate formal and considerable on the job training in the maintenance and repair of turret system.

Calls for a GCT score of 110 minimum or equivalent.

Requires considerable concentration and expenditure of nervous energy for limited periods to identify and isolate malfunctions. Entails considerable dexterity and coordination of movement to disassemble and assemble complex and intricate gear trains and to repair multiple electrical circuits and connections.

Demands normal color perception. Involves moderate physical effort. Entails moderate elements of discomfort when checking or adjusting equipment of difficult access.

Related Civilian Jobs
None

Desirable Civilian School Courses
- Electricity
- Radio
- Machine Shop
- Algebra
- Geometry
- Physics

Necessary Aptitudes
- Airmen Classification Test Battery
  - Mechanical
  - Electronics
TURRET SYSTEMS Sub-division

Senior Turret Systems Mechanic Gunner (32351)

Job Description
Isolates unit malfunctions and performs in-flight and/or organizational and field maintenance on turret system assemblies. Performs duties of turret system gunner and operates such equipment as target towing, in-flight refueling, and gunlaying radar. Readies turret system for operational missions. Acts as scanner in flight, remaining constantly alert for enemy intrusion and improper aircraft actions, such as oil and gas leaks, and observing such other duties as outlined by aircraft commander. Completes operational maintenance, and inspections records. Supervises and instructs subordinate turret mechanic and gunlaying system mechanics.

Job Requirements
Requires considerable formal and on the job training in maintenance and repair of gunlaying and turret systems.

Demands a CQT score of 110 minimum or equivalent.

Calls for considerable concentration and experience in maintenance of airborne gunlaying equipment. Requires considerable degree of dexterity, precision and coordination of movement to disassemble and assemble complex and intricate gear trains, airborne gunlaying components.

Requires normal color perception, and must be physically qualified for flying duty.

Related Civilian Jobs
None

Desirable Civilian School Courses
Electricity
Radio
Machine Shop
Physics

Necessary Aptitudes
Airmen Classification Test Battery
Mechanical
Electronics
WEAPONS Career Field

**Weapon Electrical Superintendent**
APSC 23100

**Weapon Electrical Technician**
APSC 33130

**Sr. Electrical Weapons Specialist**
APSC 33240

**Apprentice Weapons Electrical Specialist**
APSC 32130

**Weapons Electrical Course**

**Weapons Mechanical Superintendent**
APSC 23208

**Weapons Mechanical Technician**
APSC 33270

**Sr. Weapons Mechanical Specialist**
APSC 33240

**Apprentice Weapons Mechanical Specialist**
APSC 32130

**Weapons Mechanical Course**

**Input to this Sub-Division is from the Maintenance Weapons Career Field or other related career fields.**
WEAPONS ELECTRICAL Sub-division

Senior Weapons Electrical Specialist (33150)

Job Description

Job Requirements
Requires moderate formal and considerable on the job training, and considerable experience in analyzing electrical and electronic defects.

Demands a GCT score of 110 minimum or equivalent.

Calls for considerable concentration and considerable expenditure of nervous energy over extended periods of time. Calls for considerable dexterity, precision and coordination of movement to assemble or adjust small parts, align components, and repair complex electrical and electronic weapons.

Requires normal color perception and involves very great exposure to elements detrimental to health and safety, such as exposure to munitions and high voltage leads.

Related Civilian Jobs
Radio Mechanic II 5-83.177
Radio Repairman I 5-83.111
Electrical-Instrument Repairman 5-83.975
Electrical-Equipment Tester 4-99.916

Desirable Civilian School Courses
Electricity
Machine Shop
Physics

Necessary Aptitudes
Airmen Classification Test Battery
Mechanical
Electronics
Senior Weapons Mechanical Specialist (33250)

Job Description
Assembles and maintains mechanical components of weapons and munitions. Prepares test equipment and components for tests. Aligns components and interlocking mechanisms. Assembles and installs explosive charges in shell cases; tests and inserts detonators; installs dessicators and tail fins; checks mechanical, electrical, or chemical action of fuses to insure operation under all atmospheric conditions; assembles components into complete missile. Destroys unexploded munitions beyond salvage by burning, detonating, or burying. Decontaminates affected areas or equipment. Supervises apprentice weapons mechanical specialists.

Job Requirements
Requires moderate formal and considerable on-the-job training in mechanical assembly and disassembly of weapons.

Demands a CCT score of 110 minimum or equivalent.

Calls for considerable concentration and expenditure of nervous energy in assembling munitions, installing explosives and disassembly of unexploded munitions. Requires considerable dexterity to assemble and adjust mechanical components of weapons and to assemble or disassemble munitions.

Requires normal color perception, and involves very great exposure to elements detrimental to health and safety.

Related Civilian Jobs
Armorer 5-83.541
Armament Mechanic 4-83.543
Ordnanceman 4-52.541
Inspector IV 4-52.483
Powderman 6-51.092

Desirable Civilian School Courses
Electricity
Machine Shop
Mechanical Drawing

Necessary Aptitudes
Airmen Classification Test Battery
Mechanical
Electronics
Senior Instrument Trainer Repairman (34150)

Job Description
Performs organizational and field maintenance on instrument flying trainers and accessories. Performs inspections to check performance of instrument trainers and such items as trainer instrument transmitters and indicators. Observes operation of vacuum systems to detect leaks. Observes mechanical operated systems to detect loose parts, worn bearing surfaces, and excessive play. Fills sash-pots and damping devices and lubricates components. Tests equipment for operation. Checks for leaks, power output, adjustment, sequencing, regulation and freedom of operation. Supervises instrument trainer repairman and mechanics.

Job Requirements
Requires considerable formal and on the job training in repair and maintenance of instrument flying trainers and components.

Demands a CCT score of 110 minimum or equivalent.

Calls for substantial concentration with considerable expenditure of nervous energy in repairing and adjusting parts to close tolerances. Requires knowledge of basic principles of electricity, use of drawings, blueprints, wiring diagrams, and Technical Orders.

Calls for extensive dexterity, precision and coordination of movement and responses to sensory cues to disassemble, inspect, repair, assemble and test equipment using precision tools and test instruments.

Related Civilian Jobs
Instructor, Link Trainer 0-32.32
Instrument Man IV 5-83.972

Desirable Civilian School Courses
Machine Shop
Electricity
Mechanical Drawing
Physics

Necessary Aptitudes
Airmen Classification Test Battery
Mechanical
Electronics
INSTRUMENT AND NAVIGATION TRAINER Sub-division

Senior Navigation Trainer Repairman (34151)

Job Description
Performs organizational and field maintenance on navigation trainers and accessories. Accomplishes inspections on navigation trainers, including components such as trainer instrument transmitters and indicators, terrain mechanisms, drift mechanisms, projectors, and electronic control equipment. Adjusts and aligns, regulates and synchronizes valves, switches, relays, recorders, instruments and instrument systems, drift mechanisms and computers. Tests equipment to determine operational status. Supervises navigation trainer repairmen and apprentices.

Job Requirements
Requires considerable formal and on-the-job training in repair and maintenance of navigation trainers and components.

Calls for a GCT score of 110 minimum or equivalent.

Calls for substantial concentration with considerable expenditure of nervous energy. Requires extended dexterity, precision and coordination of movement to assemble and test sensitive regulators and equipment, using precision tools and test instruments.

Related Civilian Jobs
Instructor, Link Trainer 0-32.32
Instrument Man IV 5-83.972

Desirable Civilian School Courses
Machine Shop
Electricity
Mechanical Drawing
Physics

Necessary Aptitudes
Airmen Classification Test Battery
Mechanical
Electronics
BOMBING, GUNNERY AND CLASSROOM TRAINER Sub-division

Senior Bombing Trainer Repairman (31350)

Job Description
Performs organizational and field maintenance on bombing trainers and accessories. Accomplishes inspections on trainers, and trainer systems, instrument transmitters and indicators recorders, interphone system, signal light system, wind-drift mechanism, bomb hit projector, releases mechanism, noise generators, auto-pilot system, cloud projectors, electronic controls and equipment. Adjusts, regulates and synchronizes valves, switches, relays, recorders, optics, turn controls, slide drive mechanism, bomb trainer instruments, and instrument system. Tests for equipment operation. Supervises subordinate bombing trainer repairman.

Job Requirements
Requires considerable formal and on the job training in repair and maintenance of bombing trainers.

Calls for a GCT score of 110 minimum or equivalent.

Calls for considerable knowledge of basic principles of physics and mechanics. Requires extensive dexterity precision and coordination of movement in repairing precision equipment.

Exerts moderate physical effort and encounters occasional exposure to elements detrimental to health and safety.

Related Civilian Jobs
Instructor, Link Trainer 0-32.32
Instrument Man IV 5-33.972

Desirable Civilian School Courses
Machine Shop
Mechanical Drawing
Electricity
Physics

Necessary Aptitudes
Airmen Classification Test Battery
Mechanical
Electronics
Job Description
Performs organizational and field maintenance on gunnery trainer and trainer accessories. Performs inspections on complete gunnery trainer, trainer systems, instrument transmitters and indicators, movie projectors, slide film projectors, scoring mechanisms, counters, air machine guns compressors, spot projectors, amplifiers, shot sounders, power supply units, electronic control and equipment. Checks components individually and as system for proper operation. Aligns fighter optics, loads film, aligns target optics, adjusts target plane and boresights. Tests trainer components. Supervises gunnery trainer repairman and mechanics.

Job Requirements
Requires considerable formal and on the job training and experience.

Calls for a OCT score of 110 minimum or equivalent.

Demands substantial concentration with considerable expenditure of nervous energy. Requires extensive dexterity to inspect, disassemble repair and assemble delicate instruments.

Calls for moderate physical effort and requires occasional exposure to hazards to health and safety.

Related Civilian Jobs
Instructor, Link Trainer 0-32.32
Instrument Man IV 5-83.972

Desirable Civilian School Courses
Machine Shop
Electricity
Mechanical Drawing
Physics

Necessary Aptitudes
Airman Classification Test Battery
Mechanical
Electronics
Senior Classroom Trainer Repairman (34352)

Job Description
Performs organizational and field maintenance on related classroom trainers and trainer accessories. Accomplishes inspections and functional performance, checks on classroom trainers, trainer systems, recording mechanisms, plotters, idler drums, rotating discs, drive drums, windlass motors, flight engineer's panels, pole pieces, and electronic control equipment. Removes and installs all types of classroom trainers, trainer components and equipment. Tests trainer components with authorized test stands or equipment to determine operational status.

Job Requirements
Requires considerable formal and on the job training and experience in trainer maintenance.

Calls for a GCT score of 110 minimum or equivalent.

Demands substantial concentration with considerable expenditure of nervous energy. Calls for considerable knowledge of basic principles of physics and mechanics. Requires extensive dexterity, precision and coordination of movement and quick responses to sensory cues to use delicate testing equipment.

Requires normal color perception, and moderate physical effort.

Related Civilian Jobs
Instructor, Link Trainer 0-32.32
Instrument Man IV 5-83.972

Desirable Civilian School Courses
Machine Shop
Mechanical Drawing
Physics
Electricity

Necessary Aptitudes
Airmen Classification Test Battery
Mechanical
Electronics
RADIO AND RADAR TRAINER Sub-division

Senior Radio and Radar Trainer Repairman (34350)

Job Description
Performs organizational and field maintenance on radio and radar trainers and accessories. Observes operation of all meters and indicators, including cathode ray indications of radar set. Installs and removes radio and radar trainers. Tests trainer components with authorized test equipment to determine operational status. Supervises subordinate radio and radar trainer repairman.

Job Requirements
Requires considerable formal and on the job training and experience in the maintenance and repair of radio and radar trainers, either in a military or civilian capacity.

Demands a GCT score of 110 minimum or equivalent.

Calls for considerable knowledge of construction and principles of operation of radio and radar trainers and moderate knowledge of basic principles of radio and radar. Demands considerable dexterity, precision, and coordination.

Calls for moderate physical effort and occasional exposure to health and safety hazards.

Related Civilian Jobs
Radio Mechanic II 5-33.447
Instructor, Link Trainer 0-32.32

Desirable Civilian School Courses
Radio
Electricity
Machine Shop
Mechanical Drawing
Physics

Necessary Aptitudes
Airmen Classification Test Battery
Mechanics
Electronics

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WIRE MAINTENANCE (OUTSIDE PLANT) Sub-division

Senior Installer—Cableman (36150)

Job Description
Installs and maintains telephone subsets and interoffice communications systems, and constructs and maintains field open wire and cable communications system. Climbs poles and calls central office to determine serviceability of wire pair. Strings wire. Drills holes in concrete, wood, or masonry. Repairs broken wiring, cleans carbon protector blocks, and replaces fuses. Constructs and maintains pole lines. Splices cables. Operates vulcanizing equipment in splicing rubber cables. Determines condition of cable and probable location of faults, using test equipment such as Wheatstone bridge or Meggers. Supervises work of subordinate personnel.

Job Requirements
Requires intermediate formal and informal training in wire communications. Calls for considerable work experience in the installation, test, and maintenance of telephone systems.

Calls for a GCT score of 100 minimum or equivalent.

Demands moderate level of concentration and considerable judgment in use of boom trucks. Calls for considerable dexterity in selecting and splicing wires and in pouring and shaping molten metal.

Involves substantial physical exertion and entails frequent exposure to work hazards.

Related Civilian Jobs
Lineman, Senior 5-53.110
Cable Splicer II 5-53.950
Combination Man (tel. & tel.) 5-53.210

Desirable Civilian School Courses
Electricity
Machine Shop
Mechanical Drawing

Necessary Aptitudes
Airmen Classification Test Battery
Mechanical
Senior Central Office Equipment Mechanic (36250)

Job Description
Installs and maintains central office and similar equipment in telephone central offices and specialized control centers. Determines proper location for equipment. Installs power, ringer, and battery equipment, and makes appropriate connections in accordance with circuit diagrams and equipment specifications. Repairs central office installations. Adjusts and replaces parts in relays, line finders, selectors, and connectors, using small precision tools. Supervises subordinate central office mechanics.

Job Requirements
Requires limited formal training in the principles of electricity and wire transmission. Calls for moderate work experience. Involves substantial concentration.

Demands a GCT score of 100 minimum or equivalent.

Calls for considerable dexterity, precision, and coordination of movement in manipulation of tools and test equipment.

Requires normal color perception, and entails moderate physical exertion. Imposes slight safety hazards.

Related Civilian Jobs
Central Office Installer 5-53.010
Manual Equipment Repairman 5-53.230
Central Office Repairman 5-53.235
Local Test Desk Man 5-53.220

Desirable Civilian School Courses
Electricity
Machine Shop
Mechanical Drawing

Necessary Aptitudes
Airmen Classification Test Battery
Mechanical
WIRE MAINTENANCE (INSIDE PLANT) Sub-division

Senior Carrier Repeater Mechanic (36251)

Job Description
Installs and maintains carrier repeater equipment on military circuits to provide additional channels or to amplify weak signals on existing channels. Manipulates switches, control knobs, and plugs to connect various components to measure sets and test equipment. Tests polar and other relays for proper operation. Adjusts local oscillators and filter circuits to correct frequencies with other carrier stations. Performs verbal and ringing tests on line. Maintains system records. Supervises subordinate carrier repeater mechanics.

Job Requirements
Requires moderate formal training in wire communications. Calls for moderate work experience.

Demands a GCT score of 100 minimum or equivalent.

Calls for a considerable degree of concentration, and knowledge of principles of electricity. Necessitates a considerable dexterity, precision and coordination of movement in manipulation of small precision tools and delicate, finely calibrated test equipment.

Requires normal color perception, and imposes slight safety hazards.

Related Civilian Jobs
Telephone Repeater Attendant 0-17.01
Frame III (tel. & tel.) 7-53.020

Desirable Civilian School Courses
- Electricity
- Physics
- Machinist Shop
- Mechanical Drawing

Necessary Aptitudes
- Airmen Classification Test Battery Mechanical

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Senior Communications Machine Repairman (36350)

Job Description
Installs and maintains facsimile and teletypewriter equipment. Tests power source and connects machine to system. Performs operational tests on machines. Observes functioning of equipment, and makes required adjustments by securing mechanisms, adjusting spring tensions, and setting clearances. Repairs and rebuilds facsimile and teletype machines and components. Prepares and maintains preventive maintenance schedules and records. Supervises subordinate communications machine personnel.

Job Requirements
Calls for considerable formal training in principles of electricity and wire communications. Calls for considerable on the job experience in order to establish proficiency in installation and repair of such varied kinds of equipment.

Requires a GCT score of 110 minimum or equivalent.

Demands considerable concentration and considerable degree of knowledge of electromechanical communications. Calls for considerable dexterity and precision of movement in assembling complicated communications machines.

Entails some physical exertion and some exposure to elements detrimental to health.

Related Civilian Jobs
Wire-Photo Operator, News 0.66.22
Central Office Repairman (tel. & tel.) 5-53.235

Desirable Civilian School Courses
Electricity
Physics
Mechanical Drawing

Necessary Aptitudes
Airmen Classification Test Battery
Mechanical
CRYPTOGRAPHIC MAINTENANCE Sub-division

Senior Cryptographic Machine Repairman (36351)

Job Description
Installs, tests, and maintains common and special kinds of electromechanical equipment used in encrypting, transmitting and receiving classified messages. Performs operational tests on cryptographic equipment by manipulating dials, switches, levers and keys. Uses finely calibrated and accurate scales, gauges, calipers, micrometers, and various electrical testing devices to make electrical and mechanical adjustments and measurements. Tests resistors, capacitors, relays, solenoids, and other electrical parts for shorts, grounds, and open circuits. Repairs and rebuilds equipment. Prepares and maintains preventive maintenance schedules and records.

Job Requirements
Calls for considerable formal and on the job training in communications machine installation. Requires considerable work experience.

Demands a OGT score of 110 minimum or equivalent.

Requires considerable concentration and knowledge of function and operation of teletypewriter and associated equipment. Demands considerable dexterity in using small hand tools.

Involves little physical exertion and entails slight work hazards.

Related Civilian Jobs
Central Office Repairman 5-53.235

Desirable Civilian School Courses
Electricity
Radio
Physics
Mechanical Drawing

Necessary Aptitudes
Airmen Classification Test Battery
Mechanical
Electronics
OFFICE MACHINES Sub-division

Senior Office Machine Mechanic (40150)

Job Description
Maintains, repairs, and adjusts typewriters, adding machines, calculators, comptometers and posting devices. Checks for prescribed tolerances in moving parts such as arms, gears, and slides. Retimes electrical units. Locates malfunction in moving parts by listening for unusual sounds or observing excessive play. Makes alterations and modifications to office machines as directed. Makes routine inspections of office machines and informs operators of limitations of equipment. Supervises work of office machine mechanics.

Job Requirements
Requires considerable formal training in office machine repair gained at service schools or factory or trade schools. Calls for extended work experience.

Demands a OCT score of 95 minimum or equivalent.

Calls for substantial concentration in adjusting parts to close tolerances and assembling highly complicated and fragile office machines. Necessitates considerable dexterity and precision of movement in using small hand tools in repairing small fragile parts.

Involves moderate physical exertion and exposes to some work hazards.

Related Civilian Jobs
Typewriter Serviceman 5-83.127
Tabulating-Equipment Mechanic 5-83.128
Office-Machine Serviceman 5-83.111

Desirable Civilian School Courses
Business Machines
Typing
Electricity

Necessary Aptitudes
Airmen Classification Test Battery
Mechanical
Electronics
TABULATING EQUIPMENT Sub-division

Senior Tabulating Equipment Repairman (40250)

Job Description
Maintains, repairs, and adjusts electric punch card accounting machines. Disassembles, cleans, and inspects electric punch card accounting machines such as key punches, verifiers, sorters, reproducers, collators, interpreters, and alphabetical accounting machines. Checks timing and clearance for conformance with manufacturers' specifications. Makes alterations and modifications to machines in accordance with engineering specifications. Operates reassembled machines, examining cards being processed for improper punching or spacing or undue wear, such as enlarged holes, creases, folds, or tears. Supervises subordinate mechanics engaged in electric accounting machine maintenance.

Job Requirements
Requires considerable formal training in maintenance, repair, and adjustment of electric punch card accounting machine. Certification of proficiency by the machine manufacturer is required. Calls for considerable work experience in maintenance and repair of electric accounting machines either as military or civilian installations.

Calls for a GCT score of 110 minimum or equivalent.

Involves considerable concentration and knowledge of the operation and capabilities of electric punch card accounting machines. Necessitates great hand and finger dexterity accompanied by quick responses to sensory cues.

Calls for moderate physical exertion and exposure to some work hazards.

Related Civilian Jobs
Accounting Machine Serviceman 5-33.121

Desirable Civilian School Courses
Business Machines
Typing
Electricity
Machine Shop

Necessary Aptitudes
Airmen Classification Test Battery
Mechanical
Electronics

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Senior Camera Repairman (40350)

Job Description
Repairs, adjusts and maintains cameras and photographic equipment. Performs periodic inspections and preventive maintenance on still and motion picture cameras and photographic equipment. Adjusts flash synchronization on flash type cameras. Operates cameras to determine nature of malfunction by observing mechanical operation of camera components. Examines cone assemblies such as camera drive, electric solenoid and wiring for excess wear, breaks, distortion or springs and other defects. Adjusts distance meters on known distances and intervalometers for correct timing. Installs aircraft cameras and auxiliary equipment, such as radarscope recording cameras, gun cameras, trimetrogon cameras. Supervises camera repairmen.

Job Requirements
Requires considerable formal training in optics and photography. Requires considerable work experience in camera repair.

Calls for a GCT score of 100 minimum or equivalent.

Demands a considerable concentration in making precise adjustments. Necessitates considerable hand and finger dexterity and precision of movement with steady responses to sensory cues in using small wrenches and screw drivers to adjust fragile cameras.

Involves moderate physical exertion and entails some exposure to work hazards.

Related Civilian Jobs
- Camera Repairman I 5-83.901
- Instrument Repairman IV 5-83.972
- Machinist, Camera 5-83.901

Desirable Civilian School Courses
- Photography
- Physics
- Machine Shop

Necessary Aptitudes
- Airmen Classification Test Battery
  - Mechanics
  - Electronics
INSTRUMENT OVERHAUL Sub-division

Senior Optical Instrument Repairman (40450)

Job Description
Overhauls and tests sextants, bombsights, gunsights, and drift meters. Disassembles and repairs optical instruments such as astro compasses, sextants, bombsights (K-9), gyro stabilized drift meters, nonstabilized drift meters, gunsights (R-14), and perisopic sextants. Repairs and replaces mirrors, prism assemblies, rotor shafts, bubble assemblies, and broken wires. Makes preliminary calibration prior to assembly in case. Adjusts for gyroscopic erection, prismatic alignment, optical focus, alignment of micrometer knobs, rotor tile, gear play, contact arm settings, gyro mirror and rotor alignment. Collimates all optical units. Supervises repairmen and helpers engaged in optical instrument overhaul activities.

Job Requirements
Requires considerable formal training in optics and mechanics as applies to optical instruments and devices, which may be acquired in factory courses or civilian schools. Calls for extended work experience.

Calls for a GCT score of 110 minimum or equivalent.

Involves considerable concentration and a great dexterity and precision of movement in making microscopic adjustments to lenses, prisms and mirrors.

Exercises occasional physical exertion and involves slight exposure to work hazards.

Related Civilian Jobs
- Instrument Maker II 4-75.130
- Instrument Inspector I 5-83.973
- Instrument Man IV 4-83.972
- Gyroscopic Instrument Mechanic 5-83.972

Desirable Civilian School Courses
- Physics
- Machine Shop
- Mechanical Drawing

Necessary Aptitudes
- Airmen Classification Test Battery
  - Mechanics
  - Electronics

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Senior Watch and Clock Repairman (40451)

Job Description
Overhauls and tests watches, clocks and timers. Disassembles and inspects timepieces such as hack watches, master navigation watches, master chronometers, split second timers, and elapsed time clocks. Repairs and reconditions parts. Manufactures unobtainable replacement parts using lathes and grinders. Performs final closed case inspection of completed timepieces, and timepieces removed from storage, to determine serviceability in accordance with existing directives. Supervises watch and clock repairmen and apprentices engaged in watch and clock overhaul and test duties.

Job Requirements
Requires considerable formal training in horology which may be gained in factory or trade schools. Calls for a high degree of work experience in overhauling and testing precision timepieces.

Demands a GCT score of 100 minimum or equivalent.

Calls for great dexterity and precision of movement in operating small jewelers' tools such as tweezers, screw drivers, vise and saws.

Exercises slight physical exertion and exposure to work hazards.

Related Civilian Jobs
- Instrument Maker II
- Instrument Inspector I
- Instrument Man IV

Desirable Civilian School Courses
- Machine Shop
- Mechanical Drawing

Necessary Aptitudes
- Airmen Classification Test Battery
  - Mechanical
  - Electronics
INSTRUMENT OVERHAUL Sub-division

Senior Mechanical Instrument Repairman (4L4J32)

Job Description
Overhauls and tests mechanical instruments, and pneumatic-hydraulic automatic pilot. Disassembles altimeters, airspeed indicators, pneumatic-hydraulic automatic pilots, bank and turn indicators, directional gyro and gyro horizon indicators, manifold pressure gauges, oil, fuel and hydraulic pressure gauges and rate of climb indicators. Removes, repairs, or replaces such component parts as airseals, aneroids, bearings, bourdon tubes, dash pots, and diaphragms. Tests and calibrates instruments for hysteresis, friction, low temperature operation and overpressure. Inspects for static scale errors, leaks, in diaphragm, case or bellow. Supervises repairmen and helpers engaged in mechanical instrument overhaul.

Job Requirements
Requires considerable formal training in the physical principles of mechanics. Calls for a high degree of work experience.

Demands a GCT score of 110 minimum or equivalent.

Involves substantial concentration, and a high degree of dexterity in using small hand tools in making minute adjustments to sensitive and fragile mechanisms.

Calls for occasional physical exertion, and involves some exposure to work hazards.

Related Civilian Jobs
Instrument Maker II  4-75.130
Instrument Inspector I  5-83.973
Instrument Man IV  5-83.972

Desirable Civilian School Courses
Machine Shop
Mechanical Drawing
General Shop

Necessary Aptitudes
Airmen Classification Test Battery
Mechanical
Electronics
Senior Electrical Instrument Repairman (404:53)

Job Description
Overhauls and tests electrical instruments and automatic pilots. Disassembles, repairs and assembles air ground position indicators, bank and turn indicators, vertical and directional electronic automatic pilot control units, capacitance type fuel gauges, autosyn, selsyn and magnosyn type remote indicating pressure gauges, and rudder, aileron, and elevator servo units. Dynamically balances gyro rotors, statically balances gimbal rings, rotor housings, case assemblies. Calibrates and tests completed units for erection and angular and vertical displacement of gyros, friction, hysteresis, position and scale errors, cutouts, and stabilizer operation. Supervises repairmen and helpers engaged in electrical instrument and automatic pilot overhaul.

Job Requirements
Requires considerable formal training in electricity and mechanics and its application to instruments. Calls for a high degree of work experience.

Demands a GCT score of 110 minimum or equivalent.

Calls for considerable concentration and necessitates great dexterity in making minute adjustments to hairsprings, clutch assemblies, contacts and rotor assemblies.

Exercises occasional moderate physical exertion and involves some exposure to work hazards.

Related Civilian Jobs
Instrument Maker II  4-75.130
Instrument Inspector I  5-83.973
Instrument Maker IV  5-83.972

Desirable Civilian School Courses
Electricity
Machine Shop
Mechanical Drawing
Physics

Necessary Aptitudes
Airmen Classification Test Battery
Mechanical
Electronics
MEDICAL EQUIPMENT Sub-division

Senior Medical Equipment Repairman (b0550)

Job Description
Maintains, repairs, and adjusts electrical and mechanical medical and dental equipment. Performs preventive maintenance on such medical equipment as X-ray, anesthesia, oxygen, basal metabolism, electroencephalographic, electrocardiographic and diathermy apparatus, steam pressure and electric sterilizers, dental units and chairs and operating lamps and tables. Operates and visually inspects equipment to determine cause of malfunction. Fabricates replacement parts using hand and power tools. Adjusts operation of medical equipment to conform with specifications. Supervises medical equipment repairmen engaged in maintaining, repairing and adjusting medical and dental equipment.

Job Requirements
Requires considerable formal training in mechanics, electricity and optics. Calls for intermediate work experience.

Calls for a GCT score of 100 minimum or equivalent.

Involves considerable concentration, and considerable knowledge of the application of electricity, mechanics sound and optics to therapeutic equipment. Necessitates considerable hand and finger dexterity.

Entails occasional lifting and moving of moderately heavy components, and occasional exposure to work hazards.

Related Civilian Jobs
Hospital and Surgical Equipment Serviceman 5-83.981

Desirable Civilian School Courses
Electricity
Machine Shop
Mechanical Drawing

Necessary Aptitudes
Airmen Classification Test Battery
Mechanical
Electronics

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AIRCRAFT SUPERCHARGER Sub-division

Senior Aircraft Supercharger Repairman (42150)

Job Description
Repairs and overhauls aircraft superchargers.
Removes compressor case, bearing and pump casing, oil pump drive assembly, baffle, ring, waste-pipe, nozzle box, impeller cooling cap, the bucket wheel and shaft, and repairs or replaces any worn or defective parts. Performs build-up of supercharger by installing new or repaired parts. Supervises crew of aircraft supercharger repairmen and helpers.

Job Requirements
Requires considerable formal and on the job training, and work experience.

Calls for a GCT score of 90 minimum or equivalent.

Demands moderate concentration, and considerable dexterity and precision of movement in using small hand tools.

Involves frequent lifting, and exposure to limited work hazards.

Related Civilian Jobs
Airplane Mechanic I 5-80.100

Desirable Civilian School Courses
Machine Shop
Welding
Auto Mechanics

Necessary Aptitudes
Airman Classification Test Battery Mechanical
Senior Aircraft Fuel Metering Component Repairman (42250)

Job Description
Repairs and overhauls aircraft fuel metering components. Disassembles, repairs and assembles carburetors, master controls, speed density controls, barometers, governor, and water injection regulators. Tests repaired fuel metering components. Operates flow test bench to simulate varying flight conditions specified in technical orders. Completes modifications to fuel metering equipment as directed. Performs adjustments to fuel metering components on aircraft such as adjusting jet engines RPM excessive at full throttle; direct fuel injection overheats at low cruise power settings and jet engine fuel governors RPM fuel settings. Supervises crew of aircraft fuel metering components repairmen and helpers.

Job Requirements
Requires considerable formal and on the job training as well as considerable work experience.

Demands a CQT score of 90 minimum or equivalent.

Calls for a moderate amount of concentration and expenditure of nervous energy. Requires substantial dexterity and coordination of movement in using hand tools and micrometers.

Requires considerable physical effort and calls for occasional exposure to hazards such as skin and lung irritations from toxic cleaning fluids.

Related Civilian Jobs
- Carburetor Man I  5-80.300
- Aircraft Carburetor Assembler  7-03.601
- Aircraft Carburetor Subassembler  7-03.603
- Carburetor regulator Inspector  7-03.820

Desirable Civilian School Courses
- Auto Mechanics
- Welding
- Machine Shop

Necessary Aptitudes
- Airmen Classification Test Battery
- Mechanical
AIRCRAFT PROPELLER Sub-division

Senior Aircraft Propeller Mechanic (42350)

**Job Description**
Performs maintenance and repair of aircraft propellers. Disassembles, cleans and inspects, repairs and assembles electric or hydraulic propellers. Straightens propeller blades using heavy press, check table and angle twister. Final balances propeller. Places propeller on electric or hydraulic test stand to check for operation and evidence of oil leakage. Installs propellers on engine shaft using chain fall, propeller slings and hoist. Checks propeller for operation. Accomplishes all modifications to propellers, governors, synchronizers, and feathering pumps and propeller control systems. Supervises a crew of propeller mechanics.

**Job Requirements**
Requires considerable formal and on the job training and work experience.

Demands a GCT score of 90 minimum or equivalent.

Involves moderate concentration, and considerable dexterity in using fingers and small hand tools to disassemble propeller governors and synchronizers.

Involves considerable physical exertion, moderate exposure to work hazards.

**Related Civilian Jobs**
Propeller Mechanic 5-30,400

**Desirable Civilian School Courses**
Auto Mechanics
Machine Shop

**Necessary Aptitudes**
Airmen Classification Test Battery
Mechanical
MECHANICAL ACCESSORIES AND EQUIPMENT Sub-division

Senior Mechanical Accessories and Equipment Repairman (42450)

Job Description
Maintains and repairs mechanical accessories and equipment. Inspects oxygen systems for leakage. Checks oxygen tubing, regulators, flow indicators, pressure gauges and cylinders for cleanliness, external damage and security of mounting. Inspects fire extinguishers. Checks combustion heater exhaust, fuel and temperature control systems. Ground checks operation of cabin, wing, and empennage combustion heater. Modifies systems, replacing equipment, installing new equipment and connecting wiring and tubing. Supervises mechanical accessories and equipment repairmen, apprentices and helpers.

Job Requirements
Requires considerable formal and on the job training, and work experience.

Demands a GCT score of 90 minimum or equivalent.

Calls for moderate concentration and expenditure of nervous energy and dexterity and coordination of movement in using hand tools and testing equipment.

Calls for considerable physical exertion and occasional exposure to hazards of skin and lung irritations.

Related Civilian Jobs
Plumber, Final Assembly (acft. mfg.) 5-03.564
Oxygen-system Tester 6-78.670

Desirable Civilian School Courses
Auto Mechanics
Machine Shop

Necessary Aptitudes
Airmen Classification Test Battery
Mechanical
Senior Aircraft Hydraulic Mechanic (42550)

Job Description
Performs maintenance and repair on aircraft hydraulic systems and equipment. Accomplishes inspections on pumps, accumulators, reservoirs, valves, cylinders, brakes, wheels, shock absorber struts, filter, shimmy dampers, control surface booster units and related equipment. Installs new or modified parts to accomplish modification. Tests equipment on test stand for leakage, output, pressure and adjustment. Supervises crew of aircraft hydraulic mechanics and helpers.

Job Requirements
Requires considerable formal and on the job training and work experience.

Demands a GCT score of 90 minimum or equivalent.

Calls for a moderate amount of concentration and limited expenditure of nervous energy. Calls for considerable dexterity and coordination of movement in using hand tools and testing equipment.

Necessitates moderate physical exertion and calls for occasional exposure to hazards to health and safety.

Related Civilian Jobs
Hydraulic Tester II 5-03.840
Airplane Mechanic I 5-80.100
Hydraulic-control-unit Assembler 5-03.540

Desirable Civilian School Courses
Auto Mechanics
Physics
Welding

Necessary Aptitudes
Airmen Classification Test Battery
Mechanical
Senior Aircraft Electrical Accessories Repairman (42650)

Job Description
Repairs and overhauls aircraft electrical accessories. Disassembles, repairs and assembles such accessories as starters, generators, and retracting motors. Reworks parts not meeting specifications by turning commutators, undercutting commutator mica, dipoles and brakes armatures and coils. Resurfaces and dresses contact points and reconditions other miscellaneous components. Tests assemblies. Checks for voltage, regulation and load capacity of generators and alternators, and slipping and breakaway torque of starters and retracting motors. Supervises crew of aircraft electrical accessories repairmen and helpers.

Job Requirements
Requires considerable formal, on the job training and work experience.

Calls for a GCT score of 90 minimum or equivalent.

Demands a moderate amount of concentration and expenditure of nervous energy. Calls for considerable dexterity in using hand tools.

Necessitates considerable physical exertion and occasional exposure to hazards to health and safety.

Related Civilian Jobs
Electrician 497.010
Electrical Instrument Repairman 500.911
Electrician, Airplane 497.910
Shop Electrician 497.220

Desirable Civilian School Courses
Electricity
Machine Shop
Physics

Necessary Aptitudes
Airmen Classification Test Battery
Mechanical
Senior Rotary Wing Mechanic (13150)

Job Description
Performs organizational and field maintenance on rotary wing aircraft. Performs inspections, disassembly, repair, and assembly on rotary wing aircraft structures, rotors, landing gear, engines, superchargers, instruments, cockpits, cabins, power transmission systems and controls. Performs aircraft servicing. Performs minor sheet metal and fabric work. Performs emergency crash work. Supervises subordinate personnel.

Job Requirements
Requires considerable formal, informal, on the job training and substantial experience in rotary wing aircraft maintenance.

Demands a GCT score of 90 minimum or equivalent.

Calls for considerable attention with substantial expenditure of nervous energy. Calls for considerable dexterity to use specialized tools in making close inspections and performing delicate adjustments.

Calls for moderate physical effort and exposure to hazards to safety and health.

Related Civilian Jobs
Airplane Mechanic I 5-30.100

Desirable Civilian School Courses
Auto Mechanics
Electricity
Welding
Machine Shop

Necessary Aptitudes
Airmen Classification Test Battery
Mechanical
AIRCRAFT MAINTENANCE Sub-division

Senior Aircraft Mechanic (43151)

Job Description

Job Requirements
Requires substantial formal, informal, on the job training and work experience.

Calls for OGT score of 90 minimum or equivalent.

Demands substantial concentration and dexterity of movement while using gauges, micrometers, and special tools in making close inspections and making delicate adjustments.

Calls for considerable physical effort and occasional exposure to health and safety hazards.

Related Civilian Jobs
Airplane Mechanic I 5-30.100

Desirable Civilian School Courses
Auto Mechanics
Machine Shop
Welding
Mechanical Drawing

Necessary Aptitudes
Airman Classification Test Battery
Mechanical
Senior Aircraft Reciprocating Engine Mechanic (43152)

Job Description
Performs organizational and field maintenance on aircraft reciprocating engines. Conducts inspections on ignition system, fuel system, lubrication system, cooling system, induction, and exhaust systems. Removes and installs engines. Strips engine of accessories and safetying. Installs engines and connects to controls and instruments and fuel lines. Runs-up engines, checks operation and makes adjustments. Supervises aircraft reciprocating engine mechanics and apprentices.

Job Requirements
Requires considerable formal, informal, on the job training and work experience.

Demands a GCT score of 90 minimum or equivalent.

Calls for substantial concentration with considerable expenditure of nervous energy. Calls for considerable dexterity and coordination of movement.

Necessitates moderate physical effort and occasional exposure to health and safety hazards.

Related Civilian Jobs
Airplane Mechanic I

Desirable Civilian School Courses
Auto Mechanics
Machine Shop
Welding
Electricity

Necessary Aptitudes
Airmen Classification Test Battery
Mechanical
AIRCRAFT MAINTENANCE Sub-division

Senior Aircraft Jet Engine Mechanic (13151)

Job Description
Performs organizational and field maintenance on aircraft jet engines and Guided Missiles. Performs inspections on aircraft guided missiles and jet engines. Removes and installs engines. Removes and replaces such items as governors, barometric, control valves, stop cocks, drip and drain valves, ignition plugs and coils. Supervises aircraft jet engine mechanics and apprentices.

Job Requirements
Requires considerable formal, informal, on the job training and work experience.

Calls for OJT score of 90 minimum or equivalent.

Demands substantial concentration with considerable expenditure of nervous energy. Calls for considerable dexterity to use depth and feeler gauges and special tools in adjusting close tolerances.

Demands moderate physical effort and occasional exposure to hazards to health and safety.

Related Civilian Jobs
Airplane Mechanic I 5-30.100

Desirable Civilian School Courses
Auto Mechanics
Machine Shop
Electricity
Welding

Necessary Aptitudes
Airmen Classification Test Battery
Mechanical
AIRCRAFT MAINTENANCE Sub-division

Senior Aircraft Electrician (43154)

Job Description
Performs organizational and field maintenance on aircraft electrical systems and components. Inspects, repairs and replaces aircraft wiring, switches, accessories, and electrical systems. Adjusts electrical devices such as voltage regulators, limit switches, calibration rheostats, relay switches, temperature control devices. Tests systems for proper operation after repair. Works from drawing, blueprints and wiring diagrams and technical orders. Supervises small crew of aircraft maintenance electricians and helpers.

Job Requirements
Requires considerable formal and on the job training, and work experience.

Calls for a CQT score of 90 minimum or equivalent.

Calls for moderate degree of concentration, and considerable dexterity to use small hand tools in cramped positions and small spaces.

Requires moderate physical effort and frequent exposure to hazards to health and safety.

Related Civilian Jobs
Electrician, Airplane I 4-97.910
Elevator Repairman 5-83.921
Electrician, Automotive 5-81.420
Radio Repairman I 5-83.411

Desirable Civilian School Courses
Electricity
Radio
Physics
General Shop

Necessary Aptitudes
Airmen Classification Test Battery
Mechanical
AIRCRAFT MAINTENANCE Sub-division

Senior Aircraft Electrician-Gunner (43155)

Job Description
Performs in-flight maintenance on aircraft electrical systems and components. Performs duties of turret systems gunner and operates target towing and in-flight refueling equipment. Inspects aircraft wiring, switches, accessories, and electrical systems. Uses ohmmeter, voltmeter, ammeter, millimeter, Wheatstone bridge, and other electrical test equipment to test circuits. Readies turret systems for operational missions. In-flight, inspects one or more sighting stations by operating all units necessary to obtain proper sighting, tracking and firing. Operates tow-targets, windlass and accessory equipment. Operates in-flight refueling equipment in tanker or receiving type aircraft. Supervises aircraft electricians.

Job Requirements
Requires considerable formal, on the job training, and work experience.

Calls for a CCT score of 110 minimum or equivalent.

Demands considerable concentration to interpret schematic drawings. Calls for substantial expenditure of nervous energy while scanning for tracking gunnery targets. Calls for considerable dexterity to use small hand tools in cramped positions.

Must be appropriately qualified medically for flying duty. Calls for frequent exposure to hazards to health and safety.

Related Civilian Jobs

Electrician, Airplane I  4-97-910
Electrician, Automotive  5-81.420
Radio Repairman I  5-83.411

Desirable Civilian School Courses

Electricity
Machine Shop
Radio

Necessary Aptitudes

Airmen Classification Test Battery
Mechanical
Senior Aircraft Instrument Mechanic (43156)

Job Description
Performs organizational maintenance on aircraft instruments. Performs inspections on aircraft optical, mechanical, and electrical instruments, such as air ground position indicators, air speed indicators, bank and turn indicators, gyrocompasses, direction gyros, fuel flow meters, capacitance type fuel level gauges, selsyn and magnesyn type remote indicating gauges, tachometers, drift meters, voltmeters, ammeters, gyro stabilized driftmeters and automatic pilots. Replaces instrument system components when faulty operation is encountered. Tests individual instruments for reliability of operation. Compensates compasses. Swings compasses. Completes and installs compass correction cards. Supervises instrument mechanics.

Job Requirements
Requires considerable formal, on the job training, and work experience.

Demands a GCT score of 90 minimum or equivalent.

Involves substantial concentration and expenditure of nervous energy. Calls for considerable dexterity.

Exercises moderate physical exertion and exposes to mild elements of unpleasantness with only slight health and safety hazards.

Related Civilian Jobs
Instrument Maker II 4-75.130
Instrument Inspector 5-83.973
Instrument Man IV 5-83.972
Gyroscopic-Instrument Mechanic 5-83.972

Desirable Civilian School Courses
Electricity
Radio
Machine Shop
Physics

Necessary Aptitudes
Mechanical
Flight Mechanic Technician (43260)

Job Description
Accomplishes organizational maintenance of multi-engine aircraft and serves as technical assistant to pilot during flight. Works with crew chief, while aircraft is at home station, in inspection, repair, and trouble shooting of propeller systems, landing gear and wing flap systems. Observes all power plant and aircraft systems indicators and control devices and advises pilot of conditions. Works with pilot in controlling aircraft and power plant. Positions engine cowl flaps in control of cylinder head temperature. Positions electrical system switches in control of current generation and distribution. Keeps records of aircraft and power plant operation. Supervises aircraft mechanics.

Job Requirements
Requires considerable formal and on the job training, and work experience.

Demands a GCT score of 90 minimum or equivalent.

Calls for moderate concentration and expenditure of nervous energy. Requires moderate dexterity and precision and coordination of movement in starting and controlling power plants.

Must be appropriately qualified medically for flying duty. Requires extended exposure to severe safety and health hazards.

Related Civilian Jobs
- Airplane Inspector II 5-80.910
- Aircraft Mechanic 5-80.120

Desirable Civilian School Courses
- Auto Mechanics
- Machine Shop
- Welding
- Electricity

Necessary Aptitudes
- Airmen Classification Test Battery
- Mechanical
FLIGHT ENGINEERING Sub-division

Flight Engineer Technician (13271)

Job Description
Operates and observes power plant and aircraft system controls on multi-engine bomber and transport-type aircraft, including combinations of reciprocating and jet engines. Operates power plant controls to provide engine power output according to flight and load conditions. Operates fuel transfer system. Controls fire extinguishing system. Observes fire detection indicators, electric current generating rates, and fuel tank contents. Maintains power plant cruise control and data charts. Computes aircraft weight and balance and maintains pertinent forms. Engages in organizational maintenance, repair and replacement. Supervises airmen aircrew members engaged in ground maintenance and checks and instructs in proper work procedures.

Job Requirements
Requires considerable formal training, and on the job training.

Demands a GCT score of 110 minimum or equivalent.

Calls for substantial concentration and expenditure of nervous energy in continuously observing a variety of instruments. Calls for considerable dexterity, precision, and coordination of movement in manipulating various switches and controls.

Must be appropriately qualified medically for flying duty. Involves considerable elements of discomfort due to heating system failures, loss of pressurization and rapid descents. Involves frequent exposure to aircraft accidents.

Related Civilian Jobs
Aerial Engineer

Desirable Civilian School Courses
Auto Mechanics
Electricity
Machine Shop
Mechanical Drawing

Necessary Aptitudes
Airman Classification Test Battery
Mechanical
Senior Aircraft Reciprocating Engine Block Test Mechanic (A3350)

Job Description
Conducts block tests on aircraft reciprocating engines. Installs test block accessories. Starts engine and conducts tests. Runs engine at various speeds and records RPM, fuel, oil, nose and rear case oil pressure, oil temperature, oil consumption and cylinder head temperature on master rod cylinders. Removes accessories from engine and prepares for storage. Supervises subordinate block test personnel, and conducts on the job training.

Job Requirements
Requires considerable formal and on the job training. Demands considerable experience in preparing reciprocating engine for block test and installation testing in either a military or civilian capacity.

Calls for a GCT score of 90 minimum or equivalent.

Demands moderate concentration with limited expenditure of nervous energy. Calls for considerable dexterity to use tools and equipment of a precision type.

Calls for substantial physical effort and frequent exposure to elements of unpleasantness and discomfort.

Related Civilian Jobs
Airplane Mechanic 5-30.100

Desirable Civilian School Courses
Auto Mechanics
Electricity
General Shop

Necessary Aptitudes
Airmen Classification Test Battery
   Mechanical

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AIRCRAFT ENGINE OVERHAUL Sub-division

Senior Aircraft Reciprocating Engine Repairman (43351)

Job Description
Overhauls aircraft reciprocating engines.

Job Requirements
Requires considerable formal and on-the-job training, and work experience either military or civilian.

Demands a GCT score of 90 minimum or equivalent.

Calls for moderate concentration and dexterity.

Demands substantial physical exertion and occasional exposure to hazards to health and safety.

Related Civilian Jobs
Airplane Mechanic I 5-80.100

Desirable Civilian School Courses
Auto Mechanics
General Shop
Welding

Necessary Aptitudes
Airmen Classification Test Battery
Mechanics
Senior Aircraft Jet Engine Repairman (43352)

Job Description
Overhauls aircraft and guided missile jet engines. Disassembles engines by removing tail cone, oil and air tubes, and all gears, shafts, and bearings, from case. Records all clearances and marks matching parts. Routes all parts to specialized departments. Assembles component parts in subassemblies. Assembles compressor. Installs bearings and checks clearances of compressor, rotor and stator blades. Installs tachometer, fuel and oil pumps, barometer, fuel and oil filter, control valve, flow divider, and all fuel, oil, and air lines. Performs final assembly on engines. Supervises aircraft jet engine repairmen and apprentices.

Job Requirements
Requires considerable formal, on the job training, and work experience either military or civilian.

Calls for a CCT score of 90 minimum or equivalent.

Demands moderate concentration and expenditure of nervous energy. Calls for considerable dexterity in the use of micrometers and special gauges.

Calls for substantial physical exertion and imposes occasional exposure to hazards to health and safety.

Related Civilian Jobs
None

Desirable Civilian School Courses
Auto Mechanics
Physics

Necessary Aptitudes
Airmen Classification Test Battery
Mechanical
AIRCRAFT ENGINE OVERHAUL Sub-division

Senior Aircraft Jet Engine Block Test Mechanic (43353)

Job Description
Conducts block tests on aircraft and guided missile jet engines. Places engine in test frame. Performs prestarting check. Zero positions instruments, weighs, records and puts oil in accessory case. Starts engine and operates by manipulation of controls, switches, and valves. Accelerates engine to take-off speed and observes readings such as thrust, temperatures, and vibration. Operates engine using stroboscope tachometer to arrive at absolute given RPMs for specified period. Completes engine run and closes fuel control. Performs final inspection on engine and prepares for storage. Supervises subordinate jet engine block test mechanics.

Job Requirements
Requires considerable formal and on the job training as well as considerable work experience.

Demands a GCT score of 90 minimum or equivalent.

Calls for substantial concentration with considerable expenditure of nervous energy. Calls for considerable dexterity in use of precision tools and testing equipment.

Calls for substantial physical effort, and frequent exposure to elements of unpleasantness.

Related Civilian Jobs
Airplane Mechanic I $80.100

Desirable Civilian School courses
Auto Mechanics
Physics
General Shop

Necessary Aptitudes
Airmen Classification Test Battery
Mechanical
ROCKET PROPULSION Career Field

Rocket Propulsion Technician (WL70)

Job Description
Installs, orients, inspects, repairs, and maintains guided missile liquid and solid propellant rocket systems. Observes functioning of equipment during operation. Makes minor adjustments or repairs to put such equipment into operational condition. Installs rocket assemblies, pumps and accessories. Decontaminates areas and equipment affected by active chemicals. Installs solid propellant rockets on guided missiles. Maintains a continuous vigilance for compliance of safety regulations in the handling of rockets and igniters. Resolves technical problems. Determines thrust measurements of rocket motors operated in test stands. Analyzes troubles and takes corrective action. Instructs Subordinate personnel. Conducts on the job training in methods and procedures of rocket maintenance.

Job Requirements
Requires considerable formal, informal, on the job training, and extended work experience.

Demands a CCT score of 100 minimum or equivalent.

Calls for considerable concentration and expenditure of nervous energy. Requires a high degree of dexterity, precision and coordination of movement to adjust parts to close tolerances and testing equipment.

Calls for normal color perception. Requires frequent exposure to hazards to health and safety.

Related Civilian Jobs
None

Desirable Civilian School courses
Auto Mechanics
Electricity
Physics
Welding
Mechanical Drawing

Necessary Aptitudes
Airmen Classification Test Battery
Mechanical
MUNITIONS Sub-division

Senior Munitions Specialist (46150)

Job Description
Maintains, assembles, loads, grades, renovates and destroys explosive, incendiary, and toxic munitions and decontaminates toxic affected areas and equipment. Assembles all types of bomb, aerial mine, aerial torpedo and large caliber shell fuses, using common and special nonsparking tools. Checks mechanical, electrical, or chemical actions of fuses to insure proper operation. Checks and installs torpedo gyroscopes, exploder mechanisms and heads, tests air pressure in chamber and checks fuel supply. Removes munitions from aircraft in reverse procedure when load is returned without expenditure. Grades and classifies munitions and components as to condition and use, and completes ammunition condition report. Prepares explosive, incendiary, and toxic munitions for storage. Supervises subordinate munitions specialists.

Job Requirements
Requires moderate formal and considerable on the job training. Necessitates substantial work experience in assembling fuses and arming devices.

Demands a CQT score of 100 minimum or equivalent.

Calls for moderate concentration and expenditure of nervous energy. Requires considerable dexterity in assembling fuses, arming wires, and other munitions components.

Requires normal color perception. Involves substantial exposure to elements detrimental to health and safety.

Related Civilian Jobs
None

Desirable Civilian School Courses
Mechanical

Necessary Aptitudes
Airmen Classification Test Battery
Mechanical
WEAPONS MAINTENANCE Sub-division

Senior weapons Mechanic (16250)

Job Description
Services and repairs weapons, gun mounts, and tow-target equipment. Installs and proflight checks aircraft weapons to insure proper adjustment and functioning of mechanisms and accessories, and cleanliness of bores and chambers. Disassembles weapons and examines components for acceptable clearances and tolerances. Adjusts tolerance of parts and operating mechanisms for proper operation, using gauges and common and special type tools. Test fires and boresights weapons and calibrates sights. Repairs parts by grinding or aligning. Fabricates simple parts and accessories. Modifies weapons in accordance with applicable directive. Maintains tow-target equipment. Adjusts operating parts such as cables, brakes, and releases. Supervises subordinate personnel.

Job Requirements
Requires moderate formal and considerable on the job training. Demands considerable work experience.

Calls for a CQT score of 100 minimum or equivalent.

Demands moderate concentration and expenditure of nervous energy and considerable dexterity in use of common and special type hand tools in assembly of various weapons.

Calls for moderate physical effort and involves limited exposure to elements detrimental to health and safety.

Related Civilian Jobs
Armorer (firearms) 5-83.541
Gunsmith 5-83.542

Desirable Civilian School Courses
Machine Shop
General Shop
Mechanical Drawing

Necessary Aptitudes
Airman Classification Test Battery
Mechanical
VEHICLE MAINTENANCE Career Field

Senior Construction Mechanic (47170)

Job Description
Repairs and maintains gasoline and diesel powered construction grounds maintenance equipment. Analyzes malfunctions by visual or auditory inspections, operation, or use of recommended gauges and testing devices. Determines extent or repair required or need for replacement. Repairs assemblies and components. Repairs units by replacing worn or damaged parts with new or reconditioned parts or by simple grinding, fitting, balancing or aligning of old parts. Tests completed work for satisfactory operation. Adjusts operating mechanisms. Lubricates, services, and maintains equipment. Performs preventive maintenance services. Completes maintenance and inspection records. Supervises subordinates.

Job Requirements
Requires moderate formal and considerable on the job training. Calls for considerable experience in making repairs, replacements and adjusting gasoline engines.

Demands a GCT score of 100 minimum or equivalent.

Calls for substantial dexterity and coordination of movement in using tools, testing devices, and gauges.

Necessitates considerable physical exertion and occasional exposure to health and safety hazards.

Related Civilian Jobs
Construction-Equipment Repairman 5-83.641

Desirable Civilian School Courses
Auto Mechanics
Welding
Electricity

Necessary Aptitudes
Airmen Classification Test Battery
Mechanical
VEHICLE MAINTENANCE Career Field

Senior Automotive Mechanic (47151)

Job Description
Repairs and services automotive vehicles, light gasoline powered and general mechanical equipment. Drives vehicles to test operation of components such as engines, steering mechanisms, gauges, and brakes. Conducts tests, using special testing devices and gauges on sub-assemblies, such as carburetors, generators, and fuel pumps. Removes unserviceable parts such as spark plugs, fan belts, distributor points, and fuel lines. Repairs engines, engine accessories, clutches, and electrical systems. Repairs power train mechanisms. Repairs braking systems, steering gears, springs, and shock absorbers. Repairs auxiliary vehicular and general mechanical equipment. Supervises subordinates.

Job Requirements
Requires moderate formal and on the job training. Calls for considerable experience in automotive repair. Demands a CQF score of 100 minimum or equivalent. Calls for moderate concentration and expenditure of nervous energy, and considerable dexterity and coordination of movement. Necessitates considerable physical exertion and involves occasional exposure to elements detrimental to health and safety.

Related Civilian Jobs
Automobile Service Mechanic 5-01.010
Automobile Accessories Installer 7-83.981

Desirable Civilian School Courses
Auto Mechanics
Welding

Necessary Aptitudes
Airmen Classification Test Battery Mechanical
METAL WORKING CAREER FIELD

METAL WORKING SUPERINTENDENT
FESC 52000

MACHINE SHOP SUPERVISOR
FESC 52170
MACHINE SHOP TECHNICIAN
FESC 52171
METAL PROCESSING SUPERVISOR
FESC 53270
METAL TECHNICIAN
FESC 53370
SHEET METAL SUPERVISOR
FESC 54270
AIRFRAME REPAIR SUPERVISOR
FESC 54370
AIRFRAME REPAIR TECHNICIAN
FESC 54371

METAL TREATMENT COURSE

SENIOR MACHINIST
FESC 55110
APP MACHINIST
FESC 55110

SR. METAL PROCESSING WORKER
FESC 78512
APP. SHEET METAL WORKER
FESC 78512
APP. METAL MACHINIST
FESC 78512

SR. SHEET METAL WORKER
FESC 78512
SR. AUTOMOTIVE BODY REPAIRMAN
FESC 78512
APP. AUTOMOTIVE BODY REPAIR COURSE

SR. AIRFRAME REPAIRMAN
FESC 65331
APP. AIRFRAME REPAIRMAN
FESC 65331

GENERAL MACHINIST COURSE

GENERAL SHEET METAL COURSE

METAL WORKER
FESC 52311

AIRFRAME REPAIR
FESC 52311

APP. AIRFRAME REPAIR
FESC 52311

GENERAL MACHINIST COURSE

AIRFRAME REPAIR
FESC 52311

GASEL MACHINIST
FESC 52311

APP. SHEET METAL WORKER
FESC 78512
APP. METAL MACHINIST
FESC 78512

APP. METAL MACHINIST
FESC 78512
APP. METAL MACHINIST
FESC 78512

METAL WORKER
FESC 52311

AIRFRAME REPAIR
FESC 52311

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Senior Machinist (53150)

Job Description
Operates metal working machines in fabrication, rework and repair of metal parts. Manufactures and reworks machine parts. Measures broken or worn parts using calipers, gauges and micrometers. Draws working sketch, consults shop drawings, selects materials, determines machine and hand tools required. Performs various machine tool cutting operations such as cutting off stock using power hack saw; turning, drilling, boring, facing, reaming, and cutting threads and tapers using engine lathe, cutting gears, slots and keyways, and square and hexagonal heads on bolts and similar work pieces using milling machine. Determines need and arranges for heat treating. Assembles and fits machines parts. Maintains hand and machine tools. Supervises subordinates.

Job Requirements
Calls for considerable formal and on the job training and work experience.

Demands a GCT score of 90 minimum or equivalent.

Calls for moderate concentration and dexterity in securing awkwardly shaped pieces of work in machines.

Calls for considerable physical effort and moderate exposure to work hazards.

Related Civilian Jobs
Machinist II 5-75.010
Machinist, Bench 5-75.120

Desirable Civilian School Courses
Machine Shop
Auto Mechanics
Mechanical Drawing
Algebra

Necessary Aptitudes
Airmen Classification Test Battery
Craftsman
Senior Metal Processing Specialist (53250)

Job Description
Welds, forges, and solders metals in fabrication and repair of metal parts and components. Plans metal repair and fabrication operations. Draws working sketch, makes templates, consults drawings, and selects tools and materials. Completes weld of metals, such as steel, cast iron, aluminum, magnesium, copper, and their alloys by fusion and adhesion processes. Welds metals by using special gas welding methods, such as air-acetylene and oxyhydrogen. Welds metals by electric arc welding process. Cuts and welds ferrous and nonferrous metals using carbon arc process. Forges small tools and miscellaneous items. SOLDERS with air acetylene and oxyacetylene torch or soldering coopers. Maintains welding equipment. Supervises subordinates.

Job Requirements
Demands moderate formal training and considerable on the job training. Calls for substantial work experience.

Requires a OCT score of 100 minimum or equivalent.

Calls for moderate concentration and expenditure of nervous energy and considerable dexterity and coordination of movement.

Necessitates substantial physical effort and involves considerable exposure to work hazards.

Related Civilian Jobs
Tinsmith 4-80.010
Boilermaker 4-83.100
Welding Specialist 4-85.010
Blacksmith II 4-86.010
Radiator Repairman 5-81.530

Desirable Civilian School Courses
Welding
Mechanical Drawing

Necessary Aptitudes
Airmen Classification Test Battery
Craftsman
Senior Sheet Metal Worker (53350)

Job Description
Fabricates, installs and repairs general sheet metal utility and building parts, articles, and assemblies. Takes measurements from drawings and lays out working detail for fabrication of items such as rectangular and round heating and ventilating ducting, roof flashings, guttering, downspouting and steam tables. Cuts and trims sheet metal using hand and power cutting tools and machines such as tinners' snips, band saw, and squaring, slitting, and rotary shears. Repairs and installs heating and ventilating ducts. Installs section of metal roofing and metal roofing parts such as valley runs and flashings by nailing and soldering. Repairs and installs sheet metal components of fixed utility equipment. Supervises sheet metal workers.

Job Requirements
Requires moderate formal training and considerable on the job training. Calls for considerable work experience.

Demands a OQI score of 90 minimum or equivalent.

Calls for moderate concentration and dexterity of movement in using tinners' snips to cut intricate sheet metal forms.

Necessitates considerable physical effort in frequent prolonged reaching to overhead levels. Involves moderate exposure to work elements detrimental to health and safety.

Related Civilian Jobs
Sheet Metal Worker II 4-30.010

Desirable Civilian School Courses
General Shop
Mechanical Drawing
Sheet Metal

Necessary Aptitudes
Airmen Classification Test Battery
Craftsman

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Senior Automotive Body Repairman (53351)

Job Description
Repairs and replaces automotive body panels and fenders and straightens frames. Removes and replaces automotive body glass. Determines feasibility and best method of repair by inspection of damaged body panels and fenders. Straightens deformed panels and fenders by applying pressure with hydraulic jack, ram, or screw clamps. Welds cracks with oxyacetylene torch and filler rod. Forges welds on outer panels and fenders. Dings out creases and dents using smoothing hammers, body anvils, and spoons. Builds up areas with body solders using acetylene torch and paddle or soldering copper. Prepares repaired surfaces for painting by cleaning, washing, and applying initial coat of metal primer. Removes or installs body sections and aligns body and frame. Removes, cuts, and installs automotive body glass. Supervises subordinate automotive body repairmen.

Job Requirements
Requires limited formal, considerable on the job training, and considerable work experience; either military or civilian.

Demands a CQT score of 90 minimum or equivalent.

Calls for moderate concentration and expenditure of nervous energy and considerable coordination of movement. Necessitates moderate dexterity in using hand tools.

Calls for considerable physical effort and involves moderate exposure to work hazards, such as elementary burns, cuts and abrasions.

Related Civilian Jobs
Automobile body Repairman, Metal 5-31,510
Sheet Metal Worker II 4-30,010
Glazier II 5-77,010
Welder, Acetylene 4-35,030

Desirable Civilian School Courses
Sheet Metal
Auto Mechanics
Welding

Necessary Aptitudes
Airmen Classification Test Battery
Craftsman
AIRFRAME REPAIR Sub-division

Senior Airframe Repairman (53450)

Job Description
Repairs, modifies, and fabricates aircraft metal and plastic structural parts, components, and assemblies. Inspects such structures as frames, stringers, bulkheads, spars, ribs, stiffeners, wings, nacelles, floats, fixed or movable control surfaces, and external skin to determine repair. Fabricates aircraft and related sheet metal and extruded parts and assemblies. Cuts and trims sheet metal parts, drills and reams holes. Determines need and arranges for heat treating. Fastens parts with rivets, sheet metal screws, bolts, or solder. Repairs and replaces sheet plastic aircraft enclosures. Cuts and trims patches and replacement sheet plastic sections. Repairs aircraft sheet metal tanks. Fabricates aircraft flexible and nonflexible tubing and electrical conduit. Supervises subordinates.

Job Requirements
Requires moderate formal training and substantial on the job training in aircraft structural repair. Calls for considerable work experience.

Demands a CTT score of 100 minimum or equivalent.

Necessitates moderate concentration and dexterity of movement.

Requires considerable physical effort and involves moderate exposure to work hazards.

Related Civilian Jobs
- Sheet Metal Worker II  4-30,010
- Airplane Rigger (aircraft mfg.)  5-20,500

Desirable Civilian School Courses
- General Shop
- Sheet Metal
- Machine Shop
- Mechanical Drawing

Necessary Aptitudes
Airmen Classification Test Battery
Craftsman
ROADS AND GROUNDS Sub-division

Senior Roads and Grounds Specialist (55150)

Job Description

Job Requirements
Requires moderate formal training, and considerable on the job training. Calls for considerable work experience.

Calls for a CCT score of 90 minimum or equivalent.

Demands moderate concentration and expenditure of nervous energy. Calls for limited dexterity and coordination of movement.

Involves substantial physical exertion and frequent exposure to conditions such as dust, dirt and dampness.

Related Civilian Jobs
Blasters III 5-71.010
Rigging Man III 5-88.020
Laborer Highway Construction 9-32.31
Laborer Railroad Construction 9-32.41

Desirable Civilian School Courses
General Shop
Machine Shop

Necessary Aptitudes
Airmen Classification Test Battery
Equipment Operator
Craftsman
Senior Construction Equipment Operator (55151)

Job Description
Operates all types of heavy construction equipment to maintain roads and grounds. Levels, grades and fills surfaces. Loads and unloads sand, gravel, coal, and other loose material using cranes with dragline or clamshell. Excavates, ditches, moves earth and prepares aggregate. Drills holes for fence posts and telephone poles using powered earth auger. Operates bituminous distributor. Moves and carries away snow and ice using equipment such as graders, bulldozers, angledozers, carry-all scrapers, and rotary or push type snow plows. Maintains and prepares equipment for use. Supervises subordinates.

Job Requirements
Requires moderate formal and considerable on the job training. Calls for considerable work experience.

Calls for OCT score of 90 minimum or equivalent.

Demands moderate concentration and expenditure of nervous energy. Necessitates limited dexterity, precision and coordination of movement.

Entails substantial physical exertion and includes frequent exposure to noise, dust, dirt and grease.

Related Civilian Jobs
Trench-Digging Machine Operator 5-23.030
Locomotive Crane Operator 5-73.060
Power-Shovel Operator 5-73.210
Dragline Operator 5-73.320

Desirable Civilian School Courses
Auto Mechanics
Machine Shop
Electricity

Necessary Aptitudes
Airmen Classification Test Battery
Craftsman Equipment Operator
ROADS AND GROUNDS Sub-division

Senior Masonry and Concrete Worker (55152)

Job Description

Job Requirements
Requires moderate formal and on the job training, in masonry and concrete construction. Calls for considerable work experience.

Calls for a OCT score of 90 minimum or equivalent.

Requires moderate concentration and expenditure of nervous energy. Necessitates limited dexterity and coordination of movement.

Occasions substantial physical exertion, and entails frequent exposure to elements of discomfort and hazards affecting health and safety.

Related Civilian Jobs
- Bricklayer I 5-24.110
- Tuck Pointer 5-24.030
- Stonemason 5-24.210
- Cement Finisher II 5-26.100
- Concrete-Mixer Operator I 7-23.330

Desirable Civilian School Courses
- Mechanical Drawing
- General Shop

Necessary Aptitudes
- Airmen Classification Test Battery
- Craftsman
- Equipment Operator

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Senior Woodworker (55250)

Job Description
Constructs and repairs buildings, structures, wooden aircraft parts, models, and patterns and assembles prefabricated structures. Prepares working drawings for minor repairs, prepares materials for joining or fastening by cutting tenons, mortises, bevels, miters, grooves, and curves. Erects wooden framework by placing sills, hoists, rafters, and sheathing in proper position. Alter buildings by installing and removing partitions. Repairs doors, windows, and screens. Constructs and repairs heavy timber structures and erects scaffolding and prefabricated structures. Fabricates and repairs aircraft parts made of wood. Repairs and installs replacement parts, such as ribs, spars, and stringers, by special aircraft gluing and nailing techniques. Builds mock-ups, models and patterns. Constructs and repairs articles of fine woodwork and interior furnishings. Repairs wood sections of boats and automotive equipment bodies.

Job Requirements
Requires moderate formal and on-the-job training. Demands considerable work experience in construction and repair of buildings.

Calls for a GCT score of 90 minimum or equivalent.

Involves moderate concentration and expenditure of nervous energy. Requires considerable dexterity.

Necessitates substantial physical exertion and occasional exposure to elements causing unpleasantness.

Related Civilian Jobs
Cabinetmaker I 4-32.100
Mill Man 4-33.914
Airplane Woodworker 4-33.916
Carpenter, House 5-25.110
Carpenter, Maintenance 5-25.830

Desirable Civilian School Courses
Woodworking
Mechanical Drawing

Necessary Aptitudes
Airmen Classification Test Battery
Craftsman
Equipment Operator

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BUILDING CRAFTS Sub-division

Senior Painter (55251)

Job Description

Job Requirements
Requires moderate formal and on the job training. Calls for considerable work experience in mixing and blending paints and techniques of applying paint with brush and spray equipment.

Calls for a GCT score of 90 minimum or equivalent.

Demands moderate concentration and expenditure of nervous energy for limited periods. Entails limited dexterity.

Necessitates moderate physical exertion and involves frequent exposure to paint fumes that irritate the eyes.

Related Civilian Jobs
Painter, Maintenance 5-27.010
Painter, Boat 5-27.110
Painter, Spray I 7-16.210
Painter, Furniture 5-16.720
Painter, Automobile 5-16.910

Desirable Civilian School Courses
General Shop
Woodworking

Necessary Aptitudes
Airmen Classification Test Battery
Craftsman
Equipment Operator
ELECTRICAL AND REFRIGERATION Sub-division

Senior Electrician (56150)

Job Description
Installs and repairs electrical systems and equipment, and operates maintains power generating plants. Plans and lays out work. Determines from blueprints, sketches, wiring diagrams, or other specifications, type and amount of material and equipment required. Installs interior electrical systems. Installs panel boards, switch boxes, and other concealed equipment. Threads wiring through conduit. Connects wires to fixtures. Connects wiring to power source. Strings wire or cable. Installs insulators, transformers, voltage regulators, circuit breakers, junction boxes, switch boxes, potheads, and cutouts. Installs and maintains power generating plants. Trouble shoots and repairs electrical circuits. Repairs electrical equipment. Supervises subordinates.

Job Requirements
Requires moderate formal training and extended on the job training in principles of electricity. Calls for considerable experience in repairing generators and electric motors.

Demands a CCT score of 100 minimum or equivalent.

Calls for substantial concentration and expenditure of nervous energy. Requires moderate dexterity and coordination of movement.

Requires moderate physical effort, and entails considerable exposure to elements of discomfort.

Related Civilian Jobs
Electrician 4-97.010
Substation Operator 5-51.210
Powerman II 5-72.010
Powerhouse Repairman 5-53.374

Desirable Civilian School Courses
Electricity
Mechanical Drawing
General Shop

Necessary Aptitudes
Airmen Classification Test Battery
Equipment Operator
Craftsman

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Senior Refrigeration Specialist (56151)

Job Description
Installs, maintains, and repairs refrigeration equipment. Installs, maintains, and repairs refrigeration and air conditioning equipment, using sulphur dioxide, methyl chloride, ammonia, and freon refrigerants. Tests refrigeration systems. Injects refrigerant into system for testing purposes and builds up normal pressure by adding carbon dioxide gas. Tests joints and connections using burning sulphur candle, halide detector, and other approved devices. Dehydrates system by inserting drier into tubing at service valve. Lubricates compressor, motor, and other moving parts. Maintains tools and equipment. Supervises subordinates.

Job Requirements
Requires moderate formal and on-the-job training in maintenance and repair of refrigeration equipment. Calls for considerable work experience.

Demands a CCT score of 90 minimum or equivalent.

Calls for moderate concentration and expenditure of nervous energy, and calls for limited dexterity and coordination of movement.

Necessitates moderate physical exertion and involves exposure to considerable elements of discomfort.

Related Civilian Jobs
Refrigerating Engineer 5-72.310
Refrigeration Mechanic 5-83.911
Electric Refrigerator Serviceman 5-83.031

Desirable Civilian School Courses
Physics
Electricity
General Shop

Necessary Aptitudes
Airman Classification Test Battery
Equipment Operator
Craftsman
GAS GENERATING PLANT Sub-division

Senior Gas Generating Plant Operator (56250)

Job Description
Operates and maintains mobile and stationary gas generating equipment. Sets-up gas generating plants. Prepares chemical gas analysis apparatus for use by adding proper chemicals such as caustic soda, mono-ethanolamine solution and methanal for hydrogen, oxygen, ozone, nitrogen, carbon dioxide, argon. Tests safety gauges and pressure gauges for correct adjustment. Operates hand pump or controls of centrifugal pump. Prepares and submits routine and special gas generating plant reports. Supervises subordinate gas generating operators.

Job Requirements
Calls for substantial formal and on the job training as well as considerable experience in operation of mobile and stationary gas generating plants.

Demands a CCT score of 100 minimum or equivalent.

Requires moderate concentration and considerable dexterity, precision and coordination.

Necessitates frequent physical effort in lifting and carrying heavy objects and calls for considerable exposure to hazards to safety and health.

Related Civilian Jobs
- Gas Producer Man 6-56.010
- Gas Plant Operator 6-52.371

Desirable Civilian School Courses
- Physics
- Chemistry

Necessary Aptitudes
- Airmen Classification Test Battery
  - Equipment Operator
  - Craftsman
WATER SUPPLY AND SANITATION Sub-division

Senior Water Supply and Sanitation Specialist (56350)

Job Description
Operates and repairs water purification and sewage treatment plants. Exterminates vermin, operates garbage and trash collecting facilities, and performs custodial services. Operates turbine and gasoline water pumps, chlorinators, and lime feeders, maintaining chemical content and water storage level as prescribed. Operates and services dry lime feeders to maintain prescribed amount of lime in water. Operates and inspects sewage pumping and treatment structures and collection and distribution systems, such as wet and dry wells, chambers, settling tanks, digestors, trickling filters, and sludge-bed walls; effects insect and rodent control. Operates garbage and trash collecting facilities. Supervises subordinates.

Job Requirements
Requires moderate formal and on the job training and calls for considerable work experience in operation of water supply and purification systems.

Demands a CQT score of 90 minimum or equivalent.

Calls for moderate concentration and little dexterity.

Entails moderate physical effort and involves considerable discomfort resulting from frequent outside work in inclement weather.

Related Civilian Jobs
Termite Treater 5-59.950
Water Filterer 7-51.621
Trash Collector 9-61.27

Desirable Civilian School Courses
Biology
Physics
Chemistry

Necessary Aptitudes
Airmen Classification Test Battery
   Equipment Operator
   Craftsman
PLUMBING Sub-division

Senior Plumber (56450)

Job Description
Installs and repairs pipe systems conducting flow of water, steam, gas, petroleum, air and waste; installs and repairs plumbing fixtures, and auxiliary steam heating and steam operated equipment. Determines from blueprints, drawings, plans and other specifications dimensions, types and quantities of materials required. Cuts, bends, and threads pipe. Calks bolted connections by wiping, using plumber's furnace and ladle for pouring lead. Installs pipe and plumbing fixtures. Tests and inspects piping systems. Repairs and maintains piping systems and fixtures. Thaws frozen pipe and repairs or replaces damaged fixtures. Maintains tools and equipment. Supervises subordinates.

Job Requirements
Requires moderate formal and on the job training in installations and repair of pipe systems. Calls for considerable work experience.

Demands a CCT score of 90 minimum or equivalent.

Necessitates moderate concentration while repairing or installing pipes. Requires limited dexterity.

Necessitates substantial physical exertion and involves frequent exposure to elements detrimental to health and safety.

Related Civilian Jobs
Plumber, Pipe Fitting 5-30.010
Plumber, Repair 5-30.210
Steam Fitter 5-30.410

Desirable Civilian School Courses
General Shop
Welding
Mechanical Drawing

Necessary Aptitudes
Airmen Classification Test Battery
Craftsman
Equipment Operator
HEATING Sub-division

Senior Heating Specialist (56550)

Job Description
Installs and repairs all types of heating equipment. Operates automatic and hand fired furnaces and heating plants. Examines and interprets, detailed blueprints, drawing, and specifications for heating units. Assembles parts of mechanical fuel stokers and gun type or gravity feed type oil burners. Fires, operates, blows off, cleans, and keeps in operating conditions, all types of fire or water type stationary high pressure or low pressure high capacity boilers. Maintains and repairs coal burning stoves, furnaces, and boilers. Operates hand fired, coal burning furnaces and boilers under 100 pounds pressure. Maintains tools and equipment. Supervises subordinates.

Job Requirements
Requires moderate formal and on the job training and moderate work experience.

Demands a OCT score of 50 minimum or equivalent.

Calls for moderate concentration and expenditure of nervous energy and limited dexterity.

Necessitates substantial physical exertion and involves occasional exposure to elements detrimental to health and safety.

Related Civilian Jobs
Furnace Tender 4-91.571
Gas Appliance Serviceman 7-83.051

Desirable Civilian School Courses
Mechanical Drawing
General Shop

Necessary Aptitudes
Airmen Classification Test Battery
Craftsman
Equipment Operator
Senior Parachute Rigger (58150)

Job Description
Inspects, cleans, repairs, packs and drop tests parachutes. Searches for rust, corrosion and proper functioning of metal parts such as quick release assembly, rip cord and adapters. Repairs and packs parachutes. Replaces or patches canopy sections, suspension lines, pack, harness, and pilot chute, manually or on sewing machines. Issues parachutes to flying personnel. Adjusts straps to individual. Drop tests parachutes. Attaches dummy and discharges parachute from aircraft, observes for proper opening time, functioning, rate of descent and stability. Supervises subordinate personnel.

Job Requirements
Requires limited formal and on the job training, but calls for moderate experience in inspecting, cleaning and packing parachutes. Requires certification as parachute packer.

Demands a CQT score of 100 minimum or equivalent.

Necessitates moderate concentration and considerable dexterity.

Calls for occasional physical effort, but encounters only slight exposure to elements detrimental to health and safety.

Related Civilian Jobs
Parachute Repairman 7-49.023
Parachute Inspector II 6-27.110
Parachute Packer 7-49.021
Parachute Folder I 6-27.972

Desirable Civilian School Courses
Machine Shop
Mechanical Drawing

Necessary Aptitudes
Airmen Classification Test Battery
Craftsman
Senior Fabric and Leather Worker (53151)

Job Description

Inspects, repairs, fabricates and dopes fabric and leather surfaces. Determines corrective repair necessary on fabric and leather surfaces of aircraft, automobiles, tarpaulins, tents, gas masks, clothing, and other equipment. Lays out and cuts fabric and leather from pattern or drawing. Installs eyelets, grommets, and fasteners. Mends torn or worn cloth and leather of flying clothing. Mixes dope according to formula. Strips and sprays or brushes dopes on ailerons, rudders, elevators, and other control surfaces. Supervises subordinate personnel.

Job Requirements

Calls for moderate formal and on the job training, and moderate experience in inspecting, fabricating and repairing leather and fabric items.

Requires a OCT score of 100 minimum or equivalent.

Demands a moderate amount of concentration and necessitates a considerable amount of dexterity.

Involves moderate physical effort and limited exposure to elements detrimental to health and safety.

Related Civilian Jobs

Fabric Worker I 5-03.030
Upholsterer II 4-35.720
Doper I 5-16.930
Airplane Coverer 5-03.010

Desirable Civilian School Courses

Mechanical Drawing
General Shop

Necessary Aptitudes

Airmen Classification Test Battery
Craftsman
Senior Rubber Products Repairman (58250)

Job Description

Job Requirements
Calls for moderate formal training and substantial experience in repair and vulcanizing of variety of rubber articles.

Requires a OQT score of 100 minimum or equivalent.

Demands moderate concentration, and only limited dexterity.

Calls for considerable physical effort and involves exposure to moderate elements detrimental to health and safety.

Related Civilian Jobs
- Tire Repairer 4-57.212
- Tire Vulcanizer 7-89.424
- Tire Koulder 7-89.423
- Tire Builder 7-89.421
- Self-Sealing Fuel-tank Repairman 6-57.915

Desirable Civilian School Courses
- Auto Mechanics
- Mechanical Drawing

Necessary Aptitudes
- Airmen Classification Test Battery
- Craftsman
AIR TRANSPORTATION Sub-division

Senior Air Transportation Specialist (60150)

Job Description
Prepares documents and performs associated duties incident to effecting transportation of personnel, freight, and mail by air. Prepares tickets, manifests passenger lists, and freight and mail documents such as air bills and pouch tags. Posts flight arrival and departure information on consolidated flight record sheets. Traces movement of freight and mail shipments. Processes passengers. Interviews prospective passengers, screens transportation orders, and suggests degree of precedence of movement to be accorded. Processes freight and mail and allocates space. Loads and unloads aircraft. Places and arranges equipment suited to passenger comfort and welfare aloft. Supervises subordinates. Allocates workload.

Job Requirements
Requires moderate formal and on the job training as well as considerable work experience in all phases of freight and mail handling and passenger processing.

Calls for a GCT score of 100 minimum or equivalent.

Demands moderate concentration in completing documents and requires only limited dexterity.

Necessitates substantial physical exertion as well as occasional exposure to hazards to health and safety.

Related Civilian Jobs
- Yard Clerk II 1-11.12
- Checker, Traffic Clerk I 1-03.02
- Cargo Handler 1-43.20
- Ticket Agent 1-44.12
- Passenger Solicitor 1-67.51

Desirable Civilian School Courses
General Math
Bookkeeping

Necessary Aptitudes
Airmen Classification Test Battery
Clerical
Equipment Operator
AIR TRANSPORTATION Sub-division

Senior Flight Steward (60151)

Job Description
Provides for safety and comfort of passengers and security and handling of freight and mail while in flight. Demonstrates use of emergency equipment such as oxygen masks, parachutes, fire extinguishers, and operation of exit releases. Conducts drills in escape and ditching procedures; cautions against unauthorized smoking. Maintains discipline among passengers and protects classified shipments. Prepares and conveys records. Accommodates and provides for comfort of passengers. Serves meals and refreshments to passengers and crew members. Arranges for and checks supplies and equipment. Supervises subordinates.

Job Requirements
Requires moderate formal and on the job training in techniques and methods of passenger handling. Calls for moderate experience in passenger handling.

Demands a CCT score of 100 minimum or equivalent.

Calls for considerable expenditure of nervous energy, as well as some coordination of movement.

Necessitates moderate physical effort and occasional exposure to hazards detrimental to health and safety.

Related Civilian Jobs
Steward Chief 2-23.01
Airplane hostess 2-25.37

Desirable Civilian School Courses
Home Economics
Sociology

Necessary Aptitudes
Airmen Classification Test Battery
Clerical
Equipment Operator
Senior Passenger Traffic Specialist (50250)

Job Description
Arranges transportation for military and civilian personnel and their dependents. Interviews military and civilian personnel and their dependents, advising of travel allowances such as class of travel, type of accommodations, and free checkable baggage. Selects routings and makes reservations for travelers. Arranges schedules via routes selected, using information contained in official railway, national motor coach, and airline guides. Assembles group travel data and prepares transportation request and meal tickets. Maintains files and records and prepares reports and correspondence. Supervises subordinates.

Job Requirements
Requires moderate formal and considerable on the job training, as well as considerable work experience.

Calls for a GCT score of 100 minimum or equivalent.

Demands moderate concentration and only limited dexterity.

Involves slight physical effort and no exposure to elements detrimental to health and safety.

Related Civilian Jobs
Ticket Seller

Desirable Civilian School Courses
Typing
Bookkeeping

Necessary Aptitudes
Airmen Classification Test Battery
Clerical
Equipment Operator
TRAFFIC MANAGEMENT Sub-division

Senior Freight Traffic Specialist (60251)

Job Description
Performs traffic management functions in shipment and receipt of public property and authorized baggage. Classifies property, determines freight car requirements and selects route for property to be shipped. Inspects material to be shipped, translates military nomenclature to freight shipping descriptions in accordance with governing freight classifications. Checks freight to be shipped to insure compliance with packing and crating directives and rules of Consolidated Freight Classification. Prepares bills of lading. Diverts, reconsigns, traces, and expedites shipments. Maintains shipment records and prepares correspondence and reports. Coordinates transportation requirements of activities and individuals. Supervises subordinates.

Job Requirements
Requires moderate formal and considerable on-the-job training and considerable work experience.

Demands a OCT score of 100 minimum or equivalent.

Necessitates moderate concentration and limited dexterity.

Requires slight physical effort and involves infrequent exposure to work hazards.

Related Civilian Jobs
Shipping Clerk 1-33.13
Traffic Rate Clerk 1-18.97

Desirable Civilian School Courses
Typing
Business Machines

Necessary Aptitudes
Airmen Classification Test Battery
Clerical
Equipment Operator
Senior Vehicle Operator (60350)

Job Description
Operates and services automotive and materials handling equipment. Operates all types of vehicles used by the Air Force in transporting personnel and moving material. Operates truck-tractors or prime movers in towing semitrailers, full trailers, or trailer mounted equipment. Operates materials handling equipment powered by self-contained power unit, such as forklifts, warehouse tractors, and straddle truck. Cleans and services automotive equipment. Operates auxiliary or special equipment such as pumps, hose reels, engines, hoists, generators, and compressors. Handles cargo and material. Improvises and employs field and mechanical expedients. Prepares and maintains vehicle operators' forms, records, and reports. Supervises subordinates.

Job Requirements
Requires moderate formal training and considerable on the job training as well as considerable work experience.

Demands a GCT score of 100 minimum or equivalent.

Calls for moderate concentration and expenditure of nervous energy as well as considerable dexterity and coordination of movement.

Necessitates moderate physical exertion and involves occasional exposure to work hazards.

Related Civilian Jobs

<table>
<thead>
<tr>
<th>Description</th>
<th>Code</th>
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</thead>
<tbody>
<tr>
<td>Bus Driver</td>
<td>5-36.010</td>
</tr>
<tr>
<td>Chauffeur II</td>
<td>7-36.010</td>
</tr>
<tr>
<td>Taxi Driver</td>
<td>7-36.040</td>
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<tr>
<td>Dump Truck Driver</td>
<td>7-36.220</td>
</tr>
<tr>
<td>Trailer Truck Driver</td>
<td>7-36.240</td>
</tr>
</tbody>
</table>

Desirable Civilian School Courses

Auto Mechanics
Machine Shop

Necessary Aptitudes

Airmen Classification Test Battery
Equipment Operator
Clerical
MOTOR TRANSPORTATION Sub-division

Senior Vehicle Dispatcher (60351)

Job Description
Receives and appraises transportation requests and dispatches automotive and materials handling equipment. Determines and selects types and numbers of vehicles to be dispatched to requesting agencies after considerable pertinent factors such as cargo, distances involved, and priority of request. Meets scheduled commitments by dispatching suitable vehicles regularly or at predetermined times. Prepares trip tickets, making appropriate entries such as vehicle registration number, driver's name, date, using organization, and operating area. Prepares vehicle usage reports. Compiles and maintains information and advises drivers on road, terrain, and weather conditions. Maintains equipment status board. Supervises subordinates.

Job Requirements
Requires moderate formal and considerable on the job training and substantial work experience.

Demands a CQT score of 100 minimum or equivalent.

Calls for moderate concentration and expenditure of nervous energy as well as slight dexterity.

Necessitates slight exposure to elements of unpleasantness but requires no physical effort.

Related Civilian Jobs
Dispatcher, Motor Vehicle 1-18.61

Desirable Civilian School Courses
Typing
Auto Mechanics

Necessary Aptitudes
Airmen Classification Test Battery
Clerical
Equipment Operator

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FOOD SERVICE Career Field

Pay Grade
CWO
WO

Food Service Superintendent
AFSC 6200

Food Service Course

Baking Supervisor
AFSC 62170

Mess Supervisor
AFSC 62270

Meat Cutting Supervisor
AFSC 62370

Bakery Operations and Management Course

Mess Management Course

Senior Baker
AFSC 62150

Senior Cook
AFSC 62250

Senior Meat Cutter
AFSC 62350

Apprentice Baker
AFSC 62130

Apprentice Cook
AFSC 62230

Apprentice Meat Cutter
AFSC 62330

Baking Course

Cooking Course

Food Service Attendant
AFSC 62010

Basic Airmen
AFSC 00010

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BAKING Sub-division

Senior Baker (62150)

Job Description
Bakes all types of bread and pastry products in field or fixed bakery or consolidated, organizational, or field mess. Mixes dough and batter for bread and pastry products, such as all types of garrison, field, or hard breads, buns, rolls, cakes, pies, cobblers, puddings, cookies, and doughnuts. Ferments and proofs dough. Divides, molds, shapes dough and batter by hand or machine. Bakes products. Ices and decorates cake or other pastries. Mixes ingredients for fillings or meringues, candied fruits, or toppings for pastries. Supervises crew of bakers and food service attendants.

Job Requirements
Requires limited formal and on the job or comparable civilian training in bread and pastry baking. Calls for moderate experience in mixing and baking pastries.

Demands a GCT score of 90 minimum or equivalent.

Necessitates moderate physical effort and calls for frequent exposure to hazards, such as minor cuts and burns.

Calls for moderate concentration and limited expenditure of nervous energy as well as limited finger dexterity.

Related Civilian Jobs
Pastry Chef II 2-26.17
Pie Maker 2-26.21
Ovenman I 4-01.800
Baker 4-01.100

Desirable Civilian School Courses
Home Economics

Necessary Aptitudes
Airmen Classification Test Battery
Services
COOKING Sub-division

Senior Cook (62250)

Job Description
Prepares, cooks, and serves food in a consolidated, organisational, or field mess, troop train kitchen, or flight galley. Prepares a variety of fresh, frozen, canned, or dehydrated foods, such as meats, fish, poultry, vegetables, fruits, salads, puddings, gravies, desserts, dairy products, and beverages for cooking or serving by following standard, revised, or created recipes. Prepares servings by carving portions of baked and roasted meats for individual servings. Arranges, decorates, and garnishes food according to equipment and products available. Maintains kitchen utensils and equipment. Supervises crew of cooks and food service attendants.

Job Requirements
Requires elementary formal and on the job or comparable civilian training in cooking procedures and formal training in baking and meat cutting. Calls for moderate work experience.

Demands a CCT score of 90 minimum or equivalent.

Necessitates a moderate degree concentration and limited expenditure of nervous energy. Calls for limited dexterity.

Calls for moderate physical effort and frequent exposure to accidents such as cuts and burns.

Related Civilian Jobs
Chef III 2-26.31
Roundsman 2-26.03
Cook, Pastry III 2-26.18
Executive Chef 2-26.01
Cook, Short Order 2-26.33

Desirable Civilian School Courses
Home Economics

Necessary Aptitudes
Airmen Classification Test Battery
Services

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MEAT CUTTING Sub-division

Senior Meat Cutter (62350)

Job Description
Separates into standard cuts and weighs, packs, stores, and ships, beef, veal, lamb, and pork carcasses, fish and poultry. Renders fat. Cuts whole carcasses of beef, veal, lamb, and pork into halves and quarters. Bones and prepares cuts for roasts, steaks, chops, ground meat, and stew meats. Prepares retail cuts for sale in commissary. Salvages bone, fat, and trim. Stores meat, fish and poultry. Packs meat, fish, and poultry for delivery to kitchens and other using agencies. Cleans and sharpens cleavers. Operates machines and equipment, such as band saws, and other meat-cutting tools. Supervises subordinate meat cutters and food service attendants.

Job Requirements
Requires limited formal and on the job or comparable training in meat cutting and fat rendering. Calls for moderate experience in meat cutting.

Demands a CCT score of 90 minimum or equivalent.

Necessitates a moderate degree of concentration and limited expenditure of nervous energy. Calls for limited dexterity.

Involves moderate physical effort and frequent exposure to radical temperature changes for short periods.

Related Civilian Jobs
Beef Cutter II  b-09.205
Butcher, All Around  b-09.205
Meat Dresser  b-09.208
Butcher, Fish  7-58.200
Butcher, Chicken  7-58.100

Desirable Civilian School Courses
Home Economics
Vocational Agriculture

Necessary Aptitudes
Airmen Classification Test Battery Services

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SUPPLY Sub-division

Senior Warehousing Specialist (61150)

Job Description
Receives, stores, and issues supply property.
Unloads property manually or by use of hand or powered materials handling equipment. Accomplishes physical count of property. Fills out receiving documents indicating quantity, identity and condition of property received. Prepares property for storage, shipment, or disposition. Arranges storage facilities such as bins, racks, display cases, and bays, in such a manner as to insure segregation by property classification with sufficient aisle and clearance space. Issues, ships and transfers property. Inventories property. Supervises warehouse personnel.

Job Requirements
Requires moderate formal and considerable on the job training as well as considerable work experience.

Calls for a GCT score of 90 minimum or equivalent.

Demands limited concentration and expenditure of nervous energy and only moderate dexterity.

Necessitates substantial physical effort and frequent exposure to hazards to health and safety.

Related Civilian Jobs
Inventory Clerk 1-01.61
Receiving Clerk III 1-34.04
Shipping Clerk I 1-34.13
Stock Clerk II 1-38.01

Desirable Civilian School Courses
Bookkeeping
Typing
General Math

Necessary Aptitudes
Airmen Classification Test Battery
Clerical

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SUPPLY Sub-division

Senior Organizational Supply Specialist (64151)

Job Description
Requisitions, receives, stores, and issues property and maintains records in organizational supply activity. Computes quantity of supplies required considering such factors as past consumption, and of inventory, and seasonal influences. Checks supplemental supply sources such as disposal or reclamation activities to locate specific supply items. Unloads and transports property, utilizing common and specialized types of materials handling equipment. Arranges for laundering, dry cleaning, alteration or repair of property. Inventories organizational supply property. Issues and transfers property. Maintains property records. Supervises work of organizational supply personnel.

Job Requirements
Requires moderate formal training, and considerable on the job training as well as substantial experience in all aspects of handling and issuing supplies.

Demands a GCT score of 100 minimum or equivalent.

Calls for moderate concentration and attention to detail. Necessitates moderate dexterity.

Necessitates substantial physical as well as occasional exposure to hazards to health and safety.

Related Civilian Jobs
Inventory Clerk 1-01.41
Stock Chaser 1-18.66
Stock Clerk II 1-38.01
Stock Control Clerk 1-38.04

Desirable Civilian School Courses
Typing
Bookkeeping
General Math

Necessary Aptitudes
Airmen Classification Test Battery
Clerical
SUPPLY Sub-division

Senior Supply Records Specialist (64152)

Job Description

Job Requirements
Requires moderate formal and considerable on the job training as well as considerable work experience.

Calls for a OCT score of 100 minimum or equivalent.

Demands considerable concentration and expenditure of nervous energy as well as moderate dexterity.

Calls for slight physical exertion and involves no exposure to hazards to health or safety.

Related Civilian Jobs
Voucher Clerk 1-01.31
Material Clerk 1-02.12
Posting Clerk 1-01.43
File Clerk 1-17.01
Statistical Clerk 1-36.01
Clerk-Typist 1-37.34

Desirable Civilian School Courses
Typing
Bookkeeping
General Math

Necessary Aptitudes
Airmen Classification Test Battery
Clerical
PROCUREMENT Career Field

Senior Procurement Specialist (65150)

Job Description

Procures materials, supplies, and services and negotiates sales of salvage or surplus property. Assembles data preparatory to procurement of supplies or services. Edits purchase requests for proper preparation and authentication. Determines and calculates changes in requirements for services or supplies resulting from such elements as seasonal changes and climatic conditions. Compiles data and prepares solicitations for sales of surplus property and salvage. Prepares list of prospective purchases by using names furnished by Salvage Officer, and by review of current index of bidders on materials or supplies. Analyses data and determines method of selling most advantageous to the Government. Prepares Invitations to Bid and obtains price quotations. Abstracts Bid Proposals. Prepares formal contracts. Prepares purchase instruments. Maintains records of monies received and examines bonds. Prepares reports and correspondence.

Job Requirements

Requires considerable formal and on the job training as well as considerable work experience.

Demands a GCT score of 90 minimum or equivalent.

Calls for moderate concentration and expenditure of nervous energy and involves some dexterity and coordination.

Requires no physical exertion and involves no exposure to elements of unpleasantness.

Related Civilian Jobs

Purchasing Agent 0-91.60

Desirable Civilian School Courses

Typing
Bookkeeping
General Math

Necessary Aptitudes

Airmen Classification Test Battery
Clerical
Junior Stenographer (70251)

Job Description
Takes and transcribes dictation, composes correspondence, and maintains files. Takes dictation of official correspondence, reports, and telephone conversations. Records proceedings of conferences, staff meetings, investigatory boards, committees and special courts-martial not involving BCD by shorthand or stenotype machine. Arranges appointments and conferences; prepares conference agenda; receives and refers telephone calls and visitors; answers questions on procedure or subjects concerned with office functions. Maintains reference and correspondence files. Supervises and instructs subordinate personnel.

Job Requirements
Requires considerable formal and on-the-job training in stenography, office procedures, military forms, and rules and regulations. Calls for considerable experience in taking dictation by shorthand.

Demands a OCT score of 100 minimum or equivalent.

Calls for considerable concentration and substantial expenditure of nervous energy. Necessitates considerable dexterity to operate stenotype machine or take shorthand at a minimum speed of 120 words a minute.

Calls for moderate physical effort and no exposure to elements detrimental to health.

Related Civilian Jobs
Secretary 1-33.01
Stenographer 1-37.12
Stenotype Operator 1-37.1h
Transcribing-Machine Operator 1-37.36

Desirable Civilian School Courses
Typing
Shorthand
Business Machines
Bookkeeping

Necessary Aptitudes
Airmen Classification Test Battery
Clerical
ADMINISTRATIVE Sub-division

Senior Clerk (70250)

Job Description
Performs clerical and postal functions. Types correspondence and performs clerical functions. Cuts stencils and ditto master sheets. Completes applicable portion of specialized or general forms. Prepares and types materials such as wire communications, legal forms and documents, messages forms and mail locator cards. Compiles and maintains flight records such as aircraft status, hours flown, and aircraft history forms. Maintains file systems. Maintains card catalogs, classifies, shelves, and assists in selection of location of books and publications. Performs postal functions. Receives, opens, sorts, date-stamps, and logs incoming mail and records. Prepares and labels for mail pouches.

Job Requirements
Calls for substantial formal and on the job training in administrative practices and procedures. Calls for considerable experience in operation of organized distribution systems, format, and processing of administrative records.

Requires a GCT score of 100 minimum or equivalent.

Demands moderate concentration to coordinate a variety of administrative requirements. Calls for limited dexterity.

Necessitates some physical effort to operate typewriter for fairly long periods of time. Calls for no exposure to elements detrimental to health.

Related Civilian Jobs
Clerk-Typist 1-37.34
Law Clerk 0-68.48
Mail Clerk 1-27.20

Desirable Civilian School Courses
Typing
Speech
Journalism

Necessary Aptitudes
Airmen Classification Test Battery
Clerical
Senior Duplicating Devices Operator (71150)

Job Description

Job Requirements
Requires some formal training and limited on the job training. Calls for moderate experience in mixing chemicals.

Demands a OCT score of 100 minimum or equivalent.

Calls for limited concentration and expenditure of nervous energy, as well as considerable dexterity.

Necessitates limited physical effort and only occasional exposure to chemical fumes, burns, and paper cuts.

Related Civilian Jobs
- Blueprinting-machine Operator I 7-86,330
- Addressing-machine Operator 1-25,11
- Photostat Operator 5-86,310
- Photograph Printer 5-86,514
- Darkroom Man 5-86,510
- Duplicating Machine Operator I 1-25,22

Desirable Civilian School Courses
- Photography
- Mechanical Drawing

Necessary Aptitudes
- Airmen Classification Test Battery
- Craftsman
INFORMATION Career Field

Information Specialists (72150)

Job Description
Collects material, news, and written articles for dissemination to civilian and military public, and compiles data of historical significance. Attends newsworthy events, including official conferences, ceremonies, sport and civic events, and disasters to observe happenings and record pertinent data. Evaluates facts and determines style and length and importance of news stories. Plans, monitors, and effects placement of illustrative still photographs, motion picture sequences, and tape and wire recording inserts. Writes news stories for press, radio, and television. Establishes and maintains close liaison with sources and outlets of news. Compiles historical data. Writes articles, editorials, and materials for historic documentation. Supervises and instructs subordinate writers.

Job Requirements
Calls for moderate formal training and substantial on the job training in the elementary techniques of journalism. Requires considerable work experience.

Requires a OCT score of 100 minimum or equivalent.

Demands considerable concentration and expenditure of nervous energy, and demands moderate dexterity and coordination of movement in operating typewriters.

Entails slight physical exertion and offers little exposure to danger.

Related Civilian Jobs
Reporter 0-06.71

Desirable Civilian School Courses
Typing
Journalism
English

Necessary Aptitudes
Airmen Classification Test Battery
   Technical Specialty
Senior Career Guidance Specialist (73150)

Job Description
Interviews, evaluates, counsels, and classifies military personnel for career development purposes. Interviews personnel and records, personal history, education, civilian employment, aptitudes, interests, military experience, and other pertinent information. Explains occupational areas, fields, ladders, and line of progression. Conducts classification audits. Administers standard individual, or group tests, such as aptitude, performance, achievement, and intelligence tests. Performs specialized personnel functions. Analyzes occupation specialties and prepares job descriptions and specifications. Instructs and supervises Career Guidance Specialists.

Job Requirements
Requires considerable formal training in the Air Force Classification System. Calls for considerable work experience.

Demands a GCT score of 110 minimum or equivalent.

Calls for considerable attention to detail and calls for some dexterity and response to sensory cues of some subtlety to interview, test and maintain records.

Necessitates slight exertion and offers no exposure to hazards to health or safety.

Related Civilian Jobs
Manager, Employment 0-39.82
Personnel Counselor 0-39.84
Job Analyst 0-68.72
Employment Interviewer 0-68.71

Desirable Civilian School Courses
Psychology
Occupational Information

Necessary Aptitudes
Airmen Classification Test Battery
Technical Specialty
PERSONNEL Sub-division

Senior Personnel Specialist (73250)

Job Description
Advises Air Force Military personnel and dependents concerning personnel actions, personnel relations, and general welfare activities. Interviews personnel to obtain qualifying data for accurate recordings in service records. Counsels military personnel on matters pertaining to transfers, discharges, pay status allotments and papers of public record. Counsels military personnel on provisions of public laws relating to eligibility for educational benefits, employment, guarantee of loans, readjustment of allowances, rehabilitation, pension, compensations and veteran's reemployment rights. Keeps and maintains records and files. Supervises subordinate personnel.

Job Requirements
Requires considerable formal training in processing personnel records, counseling techniques, and personal affairs. Completion of military personnel schooling together with on the job or equivalent civilian training is essential. Calls for considerable work experience. Demands a CCT score of 100 minimum or equivalent. Necessitates considerable degree of attention and requires some dexterity to type and post forms and record. Calls for no physical exertion and exposes to no hazards to health or safety.

Related Civilian Jobs
- Placement Secretary 0-63.71
- Employment Clerk 1-13.31
- Personnel Clerk 1-13.32
- Employment Interviewer 0-68.71
- Social Worker 0-27.91
- Traveler's Aid Worker 0-27.04

Desirable Civilian School Courses
- Psychology
- Sociology
- Typing

Necessary Aptitudes
- Airman Classification Test Battery
- Technical Specialty
Senior Recruitment Specialist (73350)

Job Description

Job Requirements
Requires considerable formal and on the job training as well as considerable experience in military personnel activities.

Demands a GCT score of 100 minimum or equivalent.

Necessitates considerable degree of attention, mental alacrity, and expenditure of nervous energy. Calls for some dexterity with only slight response to sensory cues.

Calls for slight physical exertion and involves no exposure to hazards to health or safety.

Related Civilian Jobs
None

Desirable Civilian School Courses
Psychology
Journalism
Occupational Information

Necessary Aptitudes
Airmen Classification Test Battery
Technical Specialty
Education Career Field

-175-

Pay Grade

CWO

WO

Technical Training Supervisor
AFSC 76100

General Training Supervisor
AFSC 76200

Technical Training Technician
AFSC 76171

Sr. General Instructor
AFSC 75250

Technical Training Supervisor
AFSC 75170

General Training Supervisor
AFSC 75270

Input from a Technical Field

Instructor Course

Instructor Course

Input from any field

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Technical Training Technician (75171)

Job Description
Instructs students in Air Force Specialties. Conducts formal classes of instruction. Prepares lesson plans outlining order and manner of presentation of subject matter based upon syllabi and training project outlines. Maintains attendance records and reports absentees. Administers tests, periodically. Prepares and recommends improvements in curricula. Develops material for new or revises programs of instruction. Visits manufacturing concerns, using agencies, and research organizations to study changes in equipment, procedures, job knowledge, and skill requirements. Presents ideas for development of training aids. Supervises subordinate personnel.

Job Requirements
Requires advanced formal and on the job training in teaching techniques and procedures, and considerable training in appropriate technical specialty. Calls for experience in disseminating theory and academic information, conducting practical demonstrations, leading discussions, and utilizing training aids.

Demands a GCT score of 100 minimum or equivalent.

Calls for substantial concentration and expenditure of nervous energy to instruct groups of students. Requires only slight dexterity and coordination of movement.

Necessitates slight exposure to health and safety.

Related Civilian Jobs
Teacher, College or University 0-11.50
Teacher, High School 0-31.01
Teacher, Vocational Training 0-31.30

Desirable Civilian School Courses
Education Psychology
Teacher Training courses

Necessary Aptitudes
Airmen Classification Test Battery
Technical Specialty
Senior General Instructor (75250)

Job Description
Instructs classes designed to increase general knowledge and proficiency of airmen in basic skills required for Air Force service. Prepares materials for lectures, discussions, and demonstrations. Plans arrangement and presentation of material, utilizing such aids as briefing outlines and syllabi. Conducts classes to broaden knowledge and understanding of Air Force personnel in general academic subjects and such fundamental military matters as Air Force organization. Conducts field drills and practices. Administers tests. Maintains troop orientation facilities and records. Supervises subordinate personnel.

Job Requirements
Requires considerable formal and on the job training in instruction techniques, and considerable experience in conducting formal instruction through use of approved teaching methods.

Calls for a CBT score of 100 minimum or equivalent.

Demands substantial concentration and expenditure of nervous energy as well as moderate dexterity or coordination of movement.

Necessitates moderate physical exertion and calls for occasional exposure to hazards to health and safety.

Related Civilian Jobs
Teacher, College or University 0-11.50
Teacher, High School 0-31.01
Teacher, Vocational Training 0-32.30

Desirable Civilian School Courses
Teacher Preparatory courses

Necessary Aptitudes
Airmen Classification Test Battery
Technical Specialty
BAND Sub-division

Senior Instrumentalist (77150)

Job Description
Plays musical instrument or instruments in military concert and marching bands, dance orchestra, and miscellaneous musical groups. Practices individually on assigned musical parts and exercises in appropriate instruction books. Drills with marching band. Executes drill formations upon verbal command or baton signal of drum major or leader. Performs minor maintenance on musical equipment. Maintains music library. Receives, catalogs, files, issues and maintains band's music. Copies musical parts from scores or from other parts. Supervises subordinate instrumentalists and librarians.

Job Requirements
Requires considerable formal, informal, and on the job training in theoretical and applied musical subjects. Calls for considerable experience as instrumentalist.

Demands a GCT score of 110 minimum or equivalent.

Calls for substantial concentration and expenditure of nervous energy, as well as considerable dexterity, precision and coordination of movement.

Necessitates moderate physical effort but offers no exposure to elements detrimental to health or safety.

Related Civilian Jobs
Musical Specialist 0-21.07
Musician, Instrumental 0-24.12

Desirable Civilian School Courses
Music

Necessary Aptitudes
Airmen Classification Test Battery
Technical Specialty
ATHLETIC AND RECREATION Sub-division

Senior Athletic Specialist (77250)

Job Description
Directs, instructs, and coaches personnel participating in physical training and athletic programs. Directs elements of physical training programs, including calisthenics, dumbbell and wand drills, cross-country and obstacle-course runs, mass games, relays, combative and guerrilla exercises, parachute falls, tumbling, and others. Officiates at athletic games and contests. Coaches or assists in coaching fundamentals of such group and individual games as football, baseball, track and field sports, boxing, wrestling, and others. Cares for and maintains athletic equipment and facilities.

Job Requirements
Requires limited formal training in athletic and physical training activities gained in service schools or civilian professional schools. Calls for considerable experience in athletic and physical training.

Demands a GCT score of 110 minimum or equivalent.

Calls for substantial degree of concentration with extended expenditure of nervous energy in instructing and controlling large groups. Calls for a high degree of agility, dexterity, and muscular coordination.

Involves high degree of physical exertion and encounters occasional exposure to moderate elements detrimental to health and safety.

Related Civilian Jobs
Playground Worker 0-27.05
Athletic Coach 0-57.11
Instructor, Physical 0-57.11

Desirable Civilian School Courses
Physical Education
Participation in school sports

Necessary Aptitudes
Airmen Classification Test Battery
Technical Specialty
ATHLETIC AND RECREATION Sub-division

Senior Recreation Specialist (77251)

Job Description
Directs and conducts recreation and entertainment programs. Determines types of recreation and entertainment programs in accordance with regulations, available talent, and facilities. Plans such activities as banquets, smokers, picnics, dances, amateur shows, tournaments, base parties, and hobby programs. Demonstrates or advises on techniques of acting and entertaining. Arranges for and integrates professional acts into entertainment programs. Supervises entertainment specialists and apprentices.

Job Requirements
Requires moderate formal training in organization and direction of entertainment activities gained in service schools or civilian professional schools. Calls for considerable experience in dramatics, public speaking, and stage work.

Demands a CCT score of 100 minimum or equivalent.

Involves considerable concentration and expenditure of nervous energy in performing before large groups. Exercises considerable dexterity, precision, and coordination of movement.

Calls for occasional participation as a performer in recreational programs requiring moderate physical exertion, but encounters no elements detrimental to health and safety.

Related Civilian Jobs
Playground worker

Desirable Civilian School Courses
Music
Dramatics
Public Speaking

Necessary Aptitudes
Airmen Classification Test Battery
Technical Specialty
CIAFUCU C areer F leM

Senior Welfare Specialist (79150)

Job Description


Job Requirements

Requires limited formal training in music, religious doctrine and history; calls for some formal training in the principles and techniques of social welfare service. Calls for limited experience in religious service observances.

Demands a GCT score of 100 minimum or equivalent.

Calls for some expenditure of nervous energy and considerable dexterity to play the organ or piano.

Necessitates slight physical effort and offers no unpleasant working conditions.

Related Civilian Jobs

Musician, Instrumental  0-21.12
Teacher, Bible School  0-31.01
Receptionist II  1-18.43
Group Worker  0-27.40

Desirable Civilian School Courses

Music
Sociology

Necessary Aptitudes

Airmen Classification Test Battery
Technical Specialties
MANAGEMENT METHODS

Career Field

Pay Grade

WO

MANAGEMENT ENGINEERING SUPERINTENDENT
AFSC 80100

MANAGEMENT TECHNICIAN
AFSC 80170

MANAGEMENT SPECIALIST
AFSC 80130

MANAGEMENT ENGINEERING COURSE

ENTRY FROM RELATED CAREER FIELD

PRODUCTION CONTROL SUPERINTENDENT
AFSC 80200

PRODUCTION SCHEDULAING TECHNICIAN
AFSC 80220

PRODUCTION SCHEDUING SPECIALIST
AFSC 80230

ENTRY INTO THIS SUB DIVISION IS FOR QUALIFIED PERSONNEL FROM RELATED CAREER FIELDS

MATERIALS ESTIMATOR TECHNICIAN
AFSC 80271

MATERIALS ESTIMATOR SPECIALIST
Management Technician (80170)

Job Description

Job Requirements
Requires extended formal and on the job training in management principles, foundations, procedures, and practices. Calls for extended experience in field of leadership in field of management analysis.

Demands a CQT score of 110 minimum or equivalent.

Necessitates frequent concentration and considerable expenditure of nervous energy in conducting management training. Calls for limited dexterity in occasional use of still and sound projectors.

Calls for limited physical effort and requires infrequent exposure to health and safety hazards.

Related Civilian Jobs
Industrial Engineer 0-18.01

Desirable Civilian School Courses
Economics
General Business

Necessary Aptitudes
Airmen Classification Test Battery
Clerical
Technical Specialty
Production Scheduling Technician (80270)

Job Description
Schedules work through various repair and maintenance activities. Schedules aircraft, engines, vehicles, accessories, manufacturing, field and hangar equipment work through various repair and maintenance units. Authorizes, directs, routes, and controls flow of all work through repair and maintenance shops. Adjusts schedules. Determines priorities such as headquarters assigned projects, emergency blue streak and airplane out of commission for parts request. Estimates man-hours required to accomplish work and cost thereof. Expedites special projects. Prepares replies to technical requests. Maintains constant follow-up on all work being processed through repair shops. Analyzes production charts, backlog, cost and airplane status reports for purpose of determining if maintenance shops program and Air Force mission are being fulfilled.

Job Requirements
Requires considerable on the job training of maintenance shop methods and substantial experience in operating all machines of a specialized unit. Completion of Primary Management Course is desirable.

Demands a CCT score of 110 minimum or equivalent.

Calls for considerable concentration and substantial expenditure of nervous energy. Requires no dexterity, precision of movement, muscular coordination, or appreciable response to sensory cues.

Calls for no physical effort or hazards to health or safety.

Related Civilian Jobs
Production Controller 1-13.66

Desirable Civilian School Courses
General Business
Economics

Necessary Aptitudes
Airmen Classification Test Battery
Clerical
Technical Specialty
Materials Estimator Technician (30271)

Job Description
Estimates parts and materials requirements for various maintenance repair activities. Prepares exacting bills of material required for manufacture. Studies blueprints and technical directives and converts commercial, Army, Navy and Federal specifications to Air Force Specifications. Coordinates with supply division to determine if material or substitution from other sources is available. Takes action to obtain necessary items of supply. Prepares manhour and cost estimates on aircraft, repairable parts and manufactured items. Conducts research pertinent to costs by consulting blueprints, stock lists, micro films, technical orders, and commercial catalogs. Maintains library of technical orders. Supervises material estimators.

Job Requirements
Requires considerable formal, informal and on the job training and substantial experience in working with stock lists. Completion of Primary Management Course is desirable.

Demands a GCT score of 110 minimum or equivalent.

Calls for considerable knowledge of strength of materials. Requires no dexterity, precision of coordination of movement.

Calls for no physical effort and involves no elements detrimental to health and safety.

Related Civilian Jobs
None

Desirable Civilian School Courses
Mechanical Drawing
Cost Accounting
Shop Mathematics

Necessary Aptitudes
Airmen Classification Test Battery
Clerical
Technical Specialty
BUDGETARY ACCOUNTING & DISBURSING
CAREER FIELD

Budget & Fiscal Superintendent
AFSC 81100

Auditing Superintendent
AFSC 81101

Disbursing Superintendent
AFSC 81200

Cost Analysis Superintendent
AFSC 81300

There will be no input in for this ladder

Budget & Fiscal Supervisor
AFSC 81170

Sr. Budget Fiscal Clerk
AFSC 81150

Budget & Fiscal Clerk
AFSC 81130

Sr. Disbursing Clerk
AFSC 81250

Disbursing Clerk
AFSC 81200

Sr. Cost Analysis Specialist
AFSC 81350

Cost Analysis Specialist
AFSC 81350

Bookkeeping Technician
AFSC 81270

Advanced Disbursing Clerk

Advanced Cost Analysis Course

Basic Disbursing Course

Basic Cost Analysis Course

Input from Administering and Statistical Canvass Field

Basic Air Men
AFSC 00010

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BUDGET AND FISCAL Sub-division

Senior Budget and Fiscal Clerk (81150)

Job Description
Maintains fiscal accounts and document files, prepares reports and consolidates data for budgetary estimates. Posts allotments received to proper fund account. Makes adjustments to ledger and control totals to reflect refunds and corrections of accounting errors. Prepares fiscal reports. Prepares special reports reflecting fund status as of particular time. Maintains files of fiscal reports. Consolidates data for budgetary estimates. Supervises budget and fiscal clerks.

Job Requirements
Requires intermediate formal technical training, including completion of Basic Budget and Fiscal Course or equivalent. Requires considerable experience in one or more phases of work in a budget and fiscal activity.

Demands a GCT score of 115 minimum or equivalent.

Calls for substantial attention to detail together with aptitudes for administration and accounting. Necessitates limited dexterity and precision of movement.

Calls for slight physical exertion and involves no hazards to health or safety.

Related Civilian Jobs
Accounting Clerk 1-01-31
Accountant, Cost 0-01.10
Bookkeeper II 1-01.02
Budget Clerk 1-01.05

Desirable Civilian School Courses
Bookkeeping
Accounting
Typing

Necessary Aptitudes
Airmen Classification Test Battery
Clerical
DISBURSING Sub-division

Senior Disbursing Clerk (81250)

Job Description

Job Requirements
Requires intermediate technical training in basic disbursing course or equivalent and considerable on the job training in one or more phases of the work. Calls for considerable work experience.

Demands a CCT score of 100 minimum or equivalent.

Necessitates substantial concentration, together with interest in clerical and mathematical activities. Requires limited dexterity and precision of movement.

Calls for some physical exertion and involves no health or safety hazards.

Related Civilian Jobs
Payroll Clerk 1-26.02
Accounting Clerk 1-01.31

Desirable Civilian School Courses
General Math
Typing
Bookkeeping
Business Machines

Necessary Aptitudes
Airmen Classification Test Battery
Clerical
COST ANALYSIS Sub-division

Senior Cost Analysis Specialist (81350)

Job Description

Job Requirements
Requires limited formal and on the job training in Air Force cost reporting policies and procedures. Calls for limited experience in preparing cost reports.

Demands a CCT score of 100 minimum or equivalent.

Necessitates a high degree of concentration and expenditure of nervous energy to audit and compute cost data. Calls for some muscular coordination to operate adding machines and comptometers.

Involves no physical exertion or exposure to elements of health and safety hazards.

Related Civilian Jobs
Bookkeeper II 1-01.02
Cost Clerk II 1-01.35
Account-Classification Clerk 1-01.03
Account, Junior 0-01.20

Desirable Civilian School Courses
Bookkeeping
Typing
General Math
Business Machines

Necessary Aptitudes
Airmen Classification Test Battery
Clerical
 STATISTICAL AND MACHINE ACCOUNTING CAREER FIELD

PAY GRADE

CWO

WO

STATISTICAL AND MACHINE ACCOUNTING SUPERINTENDENT
FESC 83000

MACHINE ACCOUNTING SUPERVISOR
FESC 83270

STATISTICAL SERVICES SUPERVISOR
FESC 83170

SR. STATISTICAL SPECIALIST
FESC 83150

SR. MACHINE ACCOUNTANT
FESC 83250

SR. KEY PUNCH MACHINE OPERATOR
FESC 83251

STATISTICAL SPECIALIST
FESC 83130

APP. MACHINE ACCOUNTANT
FESC 83230

APP. KEY PUNCH MACHINE OPERATOR
FESC 83231

BASIC STATISTICAL COURSE

INPUT TO THIS CAREER FIELD FROM ADMINISTRATIVE CAREER FIELD

BASIC PIR MAN
FESC 83010

BASIC MACHINE ACCOUNTING COURSE

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STATISTICAL SERVICES Sub-division

Senior Statistical Specialist (83150)

Job Description
Compiles recurring and special statistical reports and arranges in chart, graph, and tabulated form.
Compiles statistical reports concerning personnel, training, supply, operations, equipment, facilities, cost control, and similar information. Compiles charts, graphs, tables, and maps for visual presentation of data. Controls submission of reports.
Codes data to be processed by electric accounting machines. Interprets reported information to select proper code classification and enters code numbers. Performs routine administrative work. Supervises subordinate personnel engaged in compiling and typing statistical data.

Job Requirements
Requires considerable formal training in statistics.
Calls for some training in use of computers, tabulators, and calculating machines. Calls for considerable work experience.

Demands a GCT score of 110 minimum or equivalent.

Involves considerable attention to detail and expenditure of nervous energy. Demands some dexterity and precision of movement to utilize such machines and comptometers, and adding machines.

Requires no physical exertion and calls for no exposure to elements detrimental to health and safety.

Related Civilian Jobs
Statistical Clerk 1-36.01
Statistical Technician 0-23.30
Adding Machine Operator 1-25.12
Drafting Clerk 1-35.10

Desirable Civilian School Courses
Business Machines
Typing
Algebra

Necessary Aptitudes
Airmen Classification Test Battery
Clerical
MACHINE ACCOUNTING Sub-division

Senior Machine Accountant (83250)

Job Description
Operates electrically powered punch card accounting machines. Prepares machines for operation. Wires control panels or wiring units for such operations as counting, sorting, merging, selecting, matching, interpreting, and reproducing. Operates machine. Performs operations involving block and alphabetic sorting. Collates and reproduces cards, as required. Performs miscellaneous duties. Maintains technical files. Supervises machine accountants, and apprentices.

Job Requirements
Requires moderate formal or on the job training in methods and processes used in operation of electric punch card accounting machines. Calls for moderate degree of experience in wiring of control panels and operation of variety of accounting machines.

Demands a GCT score of 110 minimum or equivalent.

Necessitates considerable concentration to wire control panels for processing of various data. Calls for considerable dexterity, precision and coordination.

Requires moderate physical exertion and involves some exposure to elements of unpleasantness.

Related Civilian Jobs
Tabulating Machine Operator 1-25.64
Sorting Machine Operator II 1-25.63
Verifier Operator 1-25.66
Key Punch Operator 1-25.62

Desirable Civilian School Courses
Typing
Business Machines

Necessary Aptitudes
Airmen Classification Test Battery
Clerical
Senior Key Punch Machine Operator (83251)

Job Description
Operates key punch machines to record accounting and statistical data on tabulating cards. Operates numeric or alphabetic key punch machines and related equipment. Prepares key punch machine for operation, adjusts and positions carriage, inserts skip bars, punches and checks trial cards. Operates duplicating mechanism to produce duplicate cards and to correct errors on old cards. Performs clerical duties. Performs organizational maintenance. Supervises work of key punch machine operators.

Job Requirements
Requires elementary formal training and considerable on the job training. Calls for considerable experience in key punch operation.

Demands a OCT score of 110 minimum or equivalent.

Demands considerable concentration and only slight dexterity, and coordination of movement.

Calls for little physical exertion and exposure to mild elements of unpleasantness.

Related Civilian Jobs
Key Punch Operator 1-25.62
Key Punch Duplicator Operator 1-25.62

Desirable Civilian School Courses
Typing
Business Machines

Necessary Aptitudes
Airmen Classification Test Battery
Clerical
AERO-MEDICAL Sub-division

Senior Aero-Medical Specialist (90150)

Job Description
Performs subprofessional duties related to air evacuation of patients and medical care and treatment of flying personnel. Prepares aircraft for receipt of patients and supervises their receipt and loading. Accomplishes routine phases of medical care of flying personnel. Assists the medical officer in the examination and treatment of eyes. Performs administrative duties. Supervises subordinate aero-medical personnel.

Job Requirements
Requires considerable training in subprofessional aspects of aviation medicine including physical examinations. Requires considerable experience in care and treatment of flying personnel.

Demands a CCT score of 100 minimum or equivalent.

Calls for considerable attention and expenditure of nervous energy and dexterity.

Necessitates considerable physical effort and frequent exposure to safety hazards in participating in air evacuation flights.

Related Civilian Jobs
Nurse, Male  
Surgical Orderly

Desirable Civilian School Courses
Biology
Physiology
Typing

Necessary Aptitudes
Airmen Classification Test Battery
Clerical
Technician Specialty
MEDICAL SERVICE Sub-division

Senior Medical Services Specialist (90250)

Job Description
Performs subprofessional duties in the care and treatment of patients. Assists in the surgical, operating, and orthopedic sections; administers physical therapy, physical reconditioning, and rehabilitation treatment. Treats diseases, injuries, and minor ailments of hospitalized patients and out-patients. Prepares patients for surgery and assists in surgical treatment under direct supervision. Sets up and operates special apparatus, such as oxygen, physical therapy equipment, and equipment for the administration of plasma, whole blood, and other infusions. Supervises subordinate medical service personnel.

Job Requirements
Requires considerable formal and on the job training in all subprofessional duties, and considerable experience in performance of subprofessional activities.

Demands a CCT score of 100 minimum or equivalent.

Calls for considerable attention and judgment as well as considerable skill and dexterity.

Necessitates some physical effort and some exposure to elements of unpleasantness.

Related Civilian Jobs
Physical Therapist 0-52.22
Nurse, Special II (male) 0-33.36
Orderly 2-12.10
Orthopedic Technician, Surgical 5-09.10

Desirable Civilian School Courses
Biology
Physiology
Chemistry

Necessary Aptitudes
Airmen Classification Test Battery
Clerical
Technical Specialty
MEDICAL SERVICES Sub-division

Senior Neuropsychiatric Specialist (90251)

Job Description
Performs subprofessional duties as psychiatric attendant and assists medical officers in treatment of psychiatric and neuropsychiatric patients. Administers occupational therapy, recreational reconditioning therapy, and special psychotherapies. Performs general and special nursing services. Operates electroencephalographic equipment. Supervises work activities.

Job Requirements
Requires considerable formal and on the job training in all subprofessional duties involved in the care and treatment of patients. Requires considerable experience in the performance of subprofessional activities.

Demands a GCT score of 100 minimum or equivalent.

Calls for a high degree of attention and judgment as well as considerable dexterity and precision in coordination of movement.

Necessitates considerable physical effort and moderate exposure to elements and unpleasantness.

Related Civilian Jobs
Nurse, Special II (Valo) 0-33.36
Ward Attendant I 2-12.22

Desirable Civilian School Courses
Psychology
Physiology
Chemistry
Electricity

Necessary Aptitudes
Airmen Classification Test Battery
Clerical
Technical Specialty
Senior Radiology Specialist (90350)

Job Description
Operates fixed or portable X-ray machines to take radiographs, and conducts tests of heart action and basal metabolism. Prepares X-ray machine and places patient on X-ray table. Inserts film, and aligns X-ray tube and assembly with patient to obtain desired angle. Performs routine duties such as mixing solutions for developing film. Conducts tests of heart action and basal metabolism rate. Prepares electrocardiograph machine for operation. Supervises assistant radiology specialists.

Job Requirements
Requires substantial formal and on the job training as well as considerable experience.

Requires a CQT score of 100 minimum or equivalent.

Calls for substantial concentration and attention to follow precise instructions. Calls for considerable dexterity.

Necessitates slight physical effort but frequent exposure to health hazards in operating X-ray machine.

Related Civilian Jobs
X-ray Technician I 0-50.00
Electrocardiograph Operator 0-50.05

Desired Civilian School Courses
Physiology
Electricity
Physics

Necessary Aptitudes
Airmen Classification Test Battery
Technical Specialty
Clerical
MEDICAL LABORATORY Sub-division

Senior Medical Laboratory Specialist (90/50)

Job Description


Job Requirements

Requires substantial formal or on the job training as well as moderate experience in laboratory work.

Calls for a GCT score of 100 minimum or equivalent.

Demands considerable concentration and expenditure of nervous energy as well as limited dexterity.

Necessitates some physical effort and moderate exposure to health hazards in handling specimens.

Related Civilian Jobs

Chemist Assistant II 0-50.22
Laboratory Assistant 0-50.01

Desirable Civilian School Courses

Chemistry
Biology
Physiology

Necessary Aptitudes

Airmen Classification Test Battery
Technical Specialty
Clerical
PHARMACY Sub-division

Senior Pharmacy Specialist (90550)

Job Description
Manufactures standard pharmaceutical preparations and compounds drugs as prescribed. Prepares tinctures, elixirs, syrups, lotions, solutions, ointments, or other stock preparations in accordance with the United States Pharmacopoeia and National Formulary. Reads, interprets, and compounds routine drug prescriptions and medical preparations in accordance with accepted standards and practices. Performs administrative duties. Maintains necessary prescription files, including those special files required in dispensing narcotics. Supervises subordinate pharmacy specialists.

Job Requirements
Requires moderate degree of formal or on the job training in pharmacology. Requires considerable experience in compounding drugs.

Demands a CCT score of 100 minimum or equivalent.

Calls for substantial concentration and expenditure of nervous energy and moderate dexterity.

Requires slight physical effort.

Related Civilian Jobs
- Pharmaceutical Detail Man 1-55.33
- Pharmaceutical-laboratory Assistant 0-50.02
- Pharmacist 0-25.10
- Pharmacologist 0-07.91

Desirable Civilian School Courses
- Chemistry
- Biology
- Physics
- Typing

Necessary Aptitudes
- Airmen Classification Test Battery
  - Technical Specialty
  - Clerical
Senior Medical Material Specialist (90650)

Job Description
Accomplishes prescribed procedures for procurement, receipt, storage, issue, maintenance, accountability, and disposition of medical supplies and equipment. Prepares purchase orders, requisitions, receiving reports, stock records, reports of survey, stock status reports, and all records and reports related to medical supply. Receives, inspects, and receipts for incoming property. Issues Medical Material property to various using services. Processes salvage and disposes of excess stock in compliance with instructions. Supervises subordinate medical material specialists.

Job Requirements
Requires limited formal and on the job training as well as considerable experience in operating the medical material stock.

Demands a OCT score of 100 minimum or equivalent.

Calls for moderate attention to detail and only limited dexterity of hands for occasional typing and use of office machines.

Necessitates some physical effort and occasional exposure to hazards to health and safety such as sprains, cuts, and bruises.

Related Civilian Jobs
Inventory Clerk 1-01.41
Stock Chaser 1-18.66
Stock Control Clerk 1-33.04

Desirable Civilian School Courses
Typing
Bookkeeping

Necessary Aptitudes
Airmen Classification Test Battery
Clerical
Technician Specialty
MEDICAL ADMINISTRATION Sub-division

Senior Medical Administrative Specialist (90651)

Job Description
Prepares records, reports, forms, and correspondence required in a medical unit. Uses standard medical terminology in preparing diagnoses and related history for entry on individual medical records of completed and transferred cases. Compiles and maintains medical records. Prepares statistical health report and report of sick and wounded indicating number of admissions, dispositions, and total in each type of illness. Performs administrative functions for sick call and special clinics. Maintains hospital fund record. Supervises subordinate medical administrative specialists.

Job Requirements
Requires limited formal and on the job training as well as considerable experience in preparation of medical reports and records.

Demands a GCT score of 100 minimum or equivalent.

Calls for moderate degree of attention to details and only limited dexterity.

Necessitates slight physical effort and involves no exposure to conditions detrimental to health or safety.

Related Civilian Jobs
- Statistician, Vital 0-36.51
- Statistical Clerk 1-36.01
- Report Clerk 1-36.01
- Medical-record Librarian 0-23.25

Desirable Civilian School Courses
- Typing
- Algebra
- Advanced Math
- Business Machines

Necessary Aptitudes
- Airmen Classification Test Battery
- Clerical
- Technician Specialty
Senior Preventive Medicine Specialist (90750)

Job Description
Performs preventive medicine services to insure maintenance of adequate sanitary and hygienic practices and facilities for preservation of health. Inspects water treatment plant for cleanliness; adequacy of heating, lighting, and ventilation; plant capacity; condition of equipment; laboratory facilities and procedure. Inspects incinerators, sewage disposal units, garbage collection points, barracks, barber shops, and industrial activities as to health hazards. Renders technical assistance to air installations personnel. Conducts special surveys of venereal disease control measures. Compiles statistical data and special reports. Supervises subordinate preventive medicine specialists.

Job Requirements
Requires considerable formal and on the job training as well as considerable experience in inspection of sanitation facilities.

Demands a CQT score of 100 minimum or equivalent.

Calls for moderate concentration and expenditure of nervous energy and considerable dexterity.

Necessitates slight physical effort and limited exposure to elements detrimental to health and safety.

Related Civilian Jobs
Sanitary Technician 0-66.11
Sanitary Inspector 0-95.16

Desirable Civilian School Courses
Biology
Chemistry
Physiology

Necessary Aptitudes
Airmen Classification Test Battery
Technical Specialty
Clerical
VETERINARY Sub-division

Senior Veterinary Specialist (90850)

Job Description
Inspect food products and performs subprofessional duties in connection with veterinary medical care of animals. Inspects meat, fish, poultry, eggs, and dairy products. Procures samples of foods for laboratory tests to determine butterfat content. Inspects canned products for such conditions as swelling, leaking, and deterioration. Performs subprofessional phases of treatment of sick and injured small animals. Supervises subordinate veterinary specialists.

Job Requirements
Requires considerable formal, informal, and on the job training in meat and dairy hygiene, sanitation and limited training in small animal care. Calls for considerable experience in inspection of meats, fish and dairy products. Demands a GCT score of 100 minimum or equivalent.

Calls for moderate concentration with occasional expenditure of nervous energy and limited dexterity.

Requires moderate physical effort and occasional exposure to elements detrimental to health and safety.

Related Civilian Jobs
Food and Dairy Inspector 0-95.11
Veterinary-hospital Attendant 2-42.60

Desirable Civilian School Courses
Home Economics
Vocational Agriculture

Necessary Aptitudes
Airman Classification Test Battery
Technical Specialty
Clerical
Senior Dental Specialist (90950)

Job Description

Job Requirements
Requires formal and on-the-job training in arrangement and use of instruments, sterile techniques, and clinic routine. Calls for considerable experience acting as chair-side assistant.

Demands a CCT score of 100 minimum or equivalent.

Calls for moderate concentration and limited expenditure of nervous energy as well as limited dexterity.

Necessitates slight physical effort and involves limited exposure to respiratory diseases during treatment of oral cavity.

Related Civilian Jobs
- Dental Hygienist: 0-50.07
- Dental Technician: 0-50.06
- Dentist's Assistant: 1-32.10

Related Civilian School Courses
- Chemistry
- Biology
- Physiology

Necessary Aptitudes
Airmen Classification Test Battery
- Clerical
- Technical Specialty
DENTAL Sub-division

Senior Dental Laboratory Specialist (90951)

Job Description
Fabricates, constructs, and repairs artificial dental appliances. Fabricates dental appliances to replace teeth, to protect or correct natural teeth, or to immobilize jaw fractures. Constructs plaster or artificial stone reproductions of teeth and jaws. Performs bench work required for construction of alloy dies, sprues, wax patterns, wrought or cast metal clasps, stress-breakers, anchor lugs, and dental framework. Performs all laboratory procedures involved in crown and bridge construction. Designs cases in conformity with requirement shown by survey and specified by dental officer. Performs clerical duties. Supervises subordinate dental laboratory specialists and dental apprentices.

Job Requirements
Requires considerable formal or on-the-job training in the technique of constructing dental prosthesis and moderate amount of training in dental and oral anatomy. Requires moderate experience in fabrication of dental prosthesis.

Demands a CQT score of 100 minimum or equivalent.

Calls for considerable concentration and considerable hand dexterity.

Necessitates slight physical exertion and involves minor exposure to safety hazards.

Related Civilian Jobs
Dental Technician 0-50.06
Dental Mechanic 0-50.06

Desirable Civilian School Courses
Chemistry
Physiology
Biology

Necessary Aptitudes
Airmen Classification Test Battery
Technical Specialty
RESCUE AND SURVIVAL CAREER FIELD

REScue + SURVIVAL SUPERINTENDENT
RFSC 92000

PARArescue Technician
RFSC 92170

PARArescue Specialist
RFSC 92130

PARAchute Jump School

Survival School

INPUT FROM MEDICAL CAREER FIELD
NORMALLY MEDICAL AND SURGICAL TECHNICIAN

INPUT FROM ANY CAREER FIELD.
Pararescue Technician (92171)

Job Description
Effects penetration into areas of difficult access and provides for medical care and treatment and evacuation of disaster victims. Locates personnel in distress. Performs land searches of areas of possible location, observing trails, scavenging birds and animals and signs of prior locations of survivors. Determines nature of extent of injury or illness and sets up emergency physical aid including cleaning cuts and abrasions, applying splints to fractures. Evacuates personnel. Instructs personnel in pararescue and survival procedures. Supervises independent team of rescue personnel. Performs organizational medical duties between rescue missions.

Job Requirements
Requires considerable and on the job training in parachuting and various aspects of survival in arctic, jungle, and water areas. Calls for substantial experience in existing under adverse climatic and terrain conditions.

Demands a GCT score of 90 minimum or equivalent.

Calls for considerable attention and expenditure of nervous energy in parachuting or mountain climbing. Requires considerable dexterity, and coordination of movement.

Necessitates occasional physical exertion and occasional great exposure to severe hazards to health and safety.

Related Civilian Jobs
Guide, Hunting and Fishing 3-96.10

Desirable Civilian School Courses
Physical Education
First Aid
Physiology

Necessary Aptitudes
Airmen Classification Test Battery Technical Specialty
Rescue and Survival Technician (92171)

Job Description
Presents briefings, lectures, and demonstrations on survival techniques and procedures and participates in rescue and survival operations. Compiles data relative to survival procedures and techniques in arctic, desert, tropical and water areas. Performs research and maintenance work. Maintains training aides adequate to present survival programs. Participates as member of rescue and survival team. Builds and maintains camp site. Locates and provides food for survivors by hunting wild game, edible vegetation, and water sources. Supervises subordinate rescue and survival personnel.

Job Requirements
Requires considerable formal and on the job training in survival procedures and techniques used in arctic, jungle and water areas. Requires considerable experience in existing under adverse climatic and terrain conditions.

Demands a CCT score of 90 minimum or equivalent.

Calls for considerable attention and expenditure of nervous energy in locating and evacuating victims. Requires considerable dexterity and coordination of movement.

Involves occasional physical exertion and considerable exposure to health and safety hazards.

Related Civilian Jobs
Guide, Hunting and Fishing 3-96.10

Desirable Civilian School Courses
Physiology
First Aid
Physical Education

Necessary Aptitudes
Airmen Classification Test Battery
Technical Specialty
Ground Safety Technician (93170)

Job Description
Promotes safety consciousness among personnel, analyzes accident causes and trends, and surveys areas and activities to eliminate hazards. Reviews reports from operating activities and consolidated statistical data for purpose of isolating significant facts and trends, such as accident producing activities. Reviews engineer plans and drawings. Studies sketches and drawings for alteration or construction of buildings, structures, machines, or roadways to determine safety hazards. Surveys areas and activities for safety hazards. Prepares and disseminates safety material. Maintains coordination and liaison with other activities. Prepares reports and maintains records.

Job Requirements
Requires considerable formal and on-the-job training in Ground Safety procedures and programming, as well as considerable experience in conducting meetings, and preparing materials for promulgating safety consciousness.

Demands a CCT score of 110 minimum or equivalent.

Calls for moderate concentration and expenditure of nervous energy and considerable knowledge of safety engineering.

Necessitates little dexterity and coordination of movement in use of office machines and in inspecting shops and working areas.

Involves slight physical exertion and only some exposure to elements of unpleasantness.

Related Civilian Jobs
Safety Men

Desirable Civilian School Courses
Typing
Public Speaking

Necessary Aptitudes
General Classification Test Battery
Technician Specialty
Senior Seaman (94150)

Job Description

Job Requirements
Requires moderate formal and on the job training in operation and maintenance of boat deck equipment. Calls for moderate work experience.

Demands a GCT score of 100 minimum or equivalent.

Necessitates limited concentration and considerable dexterity.

Involves considerable physical effort in making lines fast, fending off dock or other craft. Entails considerable chance for injury such as burns, bruises and abrasions.

Related Civilian Jobs
Able Seaman 7-B8-020
Rate III 0-88-03

Desirable Civilian School Courses
General Math
Woodworking
Geometry

Necessary Aptitudes
Airmen Classification Test Battery
Equipment Operator
Mechanical
Senior Marine Engineman (94151)

Job Description

Operates and maintains gasoline and diesel marine engines and related mechanical, electrical, and sanitary equipment. Stands engine room watch, starts and stops engines, and operates auxiliary equipment. Observes instruments to detect malfunctioning. Services and maintains engines and related boat equipment. Maintains general equipment such as lights, horns, whistles, stoves, and lanterns. Adjusts or replaces unserviceable assemblies. Adjusts assemblies such as steering mechanisms, throttle controls, reverse gears, governors, valve tappets, fuel injectors, camshafts, and carburetors. Tests completed assembly for proper functioning. Supervises subordinate marine enginemen and helpers.

Job Requirements

Requires moderate formal and on the job training in gasoline and diesel marine engine maintenance. Demands considerable work experience.

Calls for a GCT score of 100 minimum or equivalent.

Necessitates moderate concentration in standing engine-room watch and substantial dexterity.

Involves substantial physical exertion and occasional exposure to health and safety hazards.

Desirable Civilian School Courses

Auto Mechanics
General Math
Machine Shop

Necessary Aptitudes

Airmen Classification Test Battery
Equipment Operator
Mechanical
FIRE FIGHTING Career Field  AFR-35  445

Pay Grade

CWO
WO

Fire Fighting Superintendent
AFSC  95000

Fire Fighting Supervisor
AFSC  95120

SR. Firefighter
AFSC

App. Firefighter
AFSC  95120

Fire Fighter Helper
AFSC  95010

Basic Airman
AFSC  20010

Fire Fighting and Crash Rescuer Course
Senior Firefighter (95150)

Job Description
Performs firefighting functions, rescue, and salvage operations in connection with aircraft crashes and structural fires and in other emergencies. Enters wrecked or burning aircraft or structures by prescribed regular entrances or by methods of forced entry. Locates fires in aircraft or structures and isolates involved area to prevent spreading and to facilitate extinguishment with water, carbon dioxide, foam, or other type agents. Prevents fire and water damage to property. Operates fire alarm communications systems. Inspects facilities for fire hazards. Operates firefighting vehicles and equipment. Performs operator maintenance on firefighting equipment.

Job Requirements
Requires moderate formal training in basic techniques of firefighting and crash rescue. Calls for considerable work experience in operation of firefighting equipment.

Demands a GCT score of 90 minimum or equivalent.

Requires substantial dexterity and coordination of movement when forcing entry into burning structures or aircraft, effecting rescue or personnel or removing equipment.

Necessitates considerable physical effort and occasional exposure to elements of discomfort resulting from intense heat, suffocation from smoke, or crawling through small openings.

Related Civilian Jobs
Fireman III (Gov. Serv.) 2-63.10
Fire Department Equipment Man 2-63.20
Fire-Extinguisher Serviceman 7-63.985

Desirable Civilian School Courses
Chemistry
Physics
General Shop

Necessary Aptitudes
Airmen Classification Test Battery
Technical Specialty
AIR POLICE Sub-division

Senior Air Policeman (96150)

Job Description
Maintains law and order, guards prisoners and maintains guardhouse records. Directs traffic and maintains security of Government owned or controlled property. Enforces standards of conduct and appearance of military personnel in garrisons, overseas areas, and specified metropolitan localities. Apprehends individuals suspected of or observed violating laws of security.
Guards prisoners by patrolling areas, such as prison gates, towers, retaining walls, and fences. Directs and routes pedestrian or vehicle traffic at congested points. Escorts military convoys and important military or civilian persons.
Guards property, buildings, or areas to prevent pilferage or illegal entry. Participates in security checks and surveys. Renders honors and participates in ceremonies.
Supervises subordinates.

Job Requirements
Requires moderate formal and continuous on the job training as well as moderate experience in guarding and controlling prisoners.

Calls for a CCT score of 90 minimum or equivalent.

Demands moderate concentration and expenditure of nervous energy and entails considerable dexterity.

Calls for considerable physical effort and frequent exposure to elements of unpleasantness and conditions detrimental to health and safety.

Related Civilian Jobs
Guard 2-61.01
Guard, Prison 2-61.21
Police Sergeant, Precinct 2-66.01
Motorcycle Patrolman 2-66.23

Desirable Civilian School Courses
Physical Education

Necessary Aptitudes
Airmen Classification Test Battery
Technical Specialty
INVESTIGATION Sub-division

Investigator (96270)

Job Description
Investigates actual and alleged offenses of a criminal counterintelligence, or special inquiry nature, affecting Air Force personnel and property. Interrogates witnesses and persons arrested or suspected of committing such violations. Takes photographs, or arranges for photographing of objects, places, or individuals. Prepares case and summary reports of completed investigations. Investigates fires, explosions, and other disasters for evidence of sabotage. Investigates allegations of subversion, disloyalty, espionage, and treason, involving Air Force personnel to determine validity of complaint. Aids in recovery of lost, stolen, or abandoned Government property. Conducts background investigations. Collects information pertaining to enemy activity and other subversive activity in combat zones.

Job Requirements
Requires moderate formal and considerable on the job training in investigative techniques. Calls for considerable experience.

Demands a CCT score of 125 minimum or equivalent.

Calls for a high degree of initiative and alertness as well as considerable dexterity and coordination of movement.

Calls for slight physical effort and imposes infrequent exposure to hazards to health or safety.

Related Civilian Jobs
Investigator IV 1-18.35
Detective III 2-66.12

Desirable Civilian School Courses
Physical Education
Typing
Psychology

Necessary Aptitudes
Airmen Classification Test Battery
Technical Specialty
Senior Trainer Operator (99150)

Job Description
Operates devices to simulate phases of flight and high altitude and to provide air crew personnel practice in flight procedures, including aviation physiological training. Conducts preinstruction warm-up to insure proper functioning of controls, instruments and indicators. Installs recording charts; synchronizes repeater instruments, corrects vacuum indications, aligns recorders, and domes. Operates instrument flight simulators. Conducts radio telephone conversations with students during problems. Operates navigation and bombardment crew trainers. Instructs students in instrument flying procedures. Instructs in aviation physiological training program, using fixed or mobile altitude chamber in which personnel are subjected to controlled changes in air pressure. Supervises subordinates.

Job Requirements
Requires moderate formal and considerable on the job training and experience.

Demands a GCT score of 100 minimum or equivalent.

Calls for high degree of concentration and attention to detail. Necessitates moderate dexterity.

Calls for slight physical exertion and only some exposure to elements of unpleasantness.

Related Civilian Jobs
Instructor, Link Trainer

Desirable Civilian School Courses
Public Speaking
Radio
Electricity

Necessary Aptitudes
Airmen Classification Test Battery
Electronics
Technical Specialty
RAILROAD EQUIPMENT Sub-division

Senior Train Crewman (99250)

Job Description

Job Requirements
Requires considerable on the job training in railroad switching service, and work experience.

Demands a CCT score of 90 minimum or equivalent.

Calls for moderate attention and limited expenditure of nervous energy as well as moderate coordination of movement.

Requires normal color perception. Demands considerable physical exertion and moderate exposure to hazards to health and safety.

Related Civilian Jobs
Locomotive engineer 5-11.010
Conductor, Mixed Train 0-92.02
Brakeman, Yard 5-30.020
Watchman, Crossing 2-62.10

Desirable Civilian School Courses
General math
Machine Shop
Electricity

Necessary Aptitudes
Airmen Classification Test Battery
Technical Specialty
Equipment Operator
ILLUSTRATOR DRAFTSMAN Sub-division

Senior Draftsman (99350)

Job Description
Prepares detailed work plans to scale, graphs, charts, and overlays for use in construction, fabrication, and repair of mechanical parts and other illustrative purposes. Prepares drawings and plans of roads, buildings, miscellaneous construction projects, mechanical devices, equipment, parts, diagrams, graphs, and charts. Inks drawings. Traces drawings on tissue paper, using basic drawing as model when several copies are needed or for blueprinting purposes. Supervises subordinate draftsmen.

Job Requirements
Calls for considerable formal and on the job training in standard drafting practices. Requires considerable experience in mechanical drawing.

Demands a GCT score of 90 minimum or equivalent.

Requires considerable concentration and expenditure of nervous energy in making detailed drawings. Also calls for moderate dexterity, precision and coordination.

Calls for no physical exertion and no elements detrimental to health and safety.

Related Civilian Jobs
Drafting Clerk 1-35.10
Draftsman, Aeronautical 0-18.04
Draftsman, Commercial 0-18.06
Draftsman, Construction 0-18.06

Desirable Civilian School Courses
Algebra
Geometry
Mechanical Drawing

Necessary Aptitudes
Airmen Classification Test Battery
Technical Specialty
Electronics
Senior Laundry Machine Operator (99450)

Job Description
Operates fixed or mobile laundry equipment in laundering, dry cleaning, sterilizing, and impregnating clothing and equipment. Operates and maintains various power driven laundry and dry cleaning machines. Determines procedure required for washing clothes and equipment. Determines procedure required for dry cleaning clothing and equipment. Extracts moisture from wet laundry or dry cleaning. Irons flatwork and presses clothing. Sterilizes and impregnates clothing or equipment. Supervises and instructs crew of laundrymen.

Job Requirements
Requires moderate on the job training and work experience.

Demands a OCT score of 100 minimum or equivalent.

Calls for moderate concentration and limited dexterity.

Necessitates moderate physical exertion and exposure to moderate work hazards.

Related Civilian Jobs
Laundryman, Hand 7-57.991
Laundry Operator 7-57.993

Desirable Civilian School Courses
Chemistry
Textiles

Necessary Aptitudes
Airmen Classification Test Battery
Technical Specialty
Equipment Operator
Senior Radiological Specialist (99550)

Job Description
Performs duties incident to detecting radioactive sources and treating areas exposed to radioactivity. Operates special instruments to determine when amount of radiation absorbed by an object or an individual over a period of time has accumulated to a dangerous point. Performs decontamination operations. Surveys areas suspected of containing radioactive particles; performs storage operations necessary to protect highly specialized radiological equipment.

Job Requirements
Requires considerable formal training and considerable degree of experience in contacting Governmental and civilian agencies in connection with radiological defense of the local area.

Demands a GCT score of 110 minimum or equivalent.

Calls for moderate concentration and expenditure of nervous energy as well as moderate dexterity and coordination.

Necessitates considerable physical effort and involves some exposure to radioactive materials.

Related Civilian Jobs
None

Desirable Civilian School Courses
Physics
Chemistry
Electricity

Necessary Aptitudes
Airmen Classification Test Battery
Electronics
Technical Specialty
CHAPTER V

SUMMARY AND RECOMMENDATIONS FOR FURTHER STUDIES

Summary. The problem as stated in Chapter I was to investigate, interpret, and compile in a single manual, United States Air Force guidance material for high School and Junior College Counseling Personnel, with regard to: (1) vocational and educational training; (2) Air Force job descriptions and requirements; (3) related civilian jobs; (4) individual aptitudes necessary for entry into, and success in a particular Career Field; (5) civilian school courses desirable as preparation for specific Air Force jobs; and (6) normal job progression in the various Career Fields.

The problem was first brought to the attention of the investigator while interviewing Air Force Recruits, in the process of Classification and Assignment. A number of these young men were recent graduates from high schools throughout the country. Very few of them, prior to induction, had any knowledge of opportunities that were available to them in the Air Force. Consequently, the author surmised that the time to inform these men of the vocational and educational training offered, was in high school, through the counseling service. Although the Air Force does a great deal of testing and counseling in order to properly classify the Inductees, it is always to the advantage of the individual to be well informed and have a vocational goal in mind before induction.

After the need for a study of this nature was recognized, the author made a preliminary survey of the guidance material in a typical Montana high school, the Montana State University Library, and interviewed several guidance workers in the State. The result of this investigation
revealed a lack of information concerning Air Force training opportunities. With the foregoing in mind, he set about compiling a single manual, so arranged as to facilitate reproduction, that would furnish the guidance worker with simplified, authoritative, and comprehensive Air Force guidance material.

Much of the material for this study came from Air Force Regulations, listed in the Bibliography. These regulations were not suitable for guidance workers since they were written for the use of trained military Personnel Officers and Airmen, and are very technically written. Another valuable source of information was the Training Project Outlines used at the Classification and Assignment school at Lowry Air Force Base. The material used in this thesis was selected from these sources of information on the basis of usefulness and importance to the counselor in the High School and Junior College.

In order to facilitate reproduction, the manual was prepared by Career Fields, with a job analysis sheet for each skilled job therein, and a job progression chart for each field.

At the time the author was conducting the investigation, and writing this thesis, the Air Force was also in the process of preparing a somewhat similar manual. The Air Force manual is entitled, "Occupational Handbook of the United States Air Force." The main advantage of this paper over the Air Force manual is that it provides more specific information about the Air Force jobs, and covers all of the forty-three Career Fields, while the Air Force manual does not.

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While working with this study, it became apparent that revisions of this study would be very useful, from time to time, in order to keep the manual abreast of the current changes that will be taking place, with the future technological advances and personnel expansion within the Air Force.

Another research study suggested by this study is the Officer Career Program of the Air Force. This program will be implemented in the summer of 1952, at which time information will be available for investigation.
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# APPENDIX A

## FUNCTIONAL GROUPING OF AIR FORCE

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