

University of Montana

## ScholarWorks at University of Montana

---

Graduate Student Theses, Dissertations, &  
Professional Papers

Graduate School

---

1952

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

Burritt Hollister Pond  
*The University of Montana*

Follow this and additional works at: <https://scholarworks.umt.edu/etd>

**Let us know how access to this document benefits you.**

---

#### Recommended Citation

Pond, Burritt Hollister, "A manual of vocational and educational training opportunities in the United States Air Force" (1952). *Graduate Student Theses, Dissertations, & Professional Papers*. 8844.  
<https://scholarworks.umt.edu/etd/8844>

This Thesis is brought to you for free and open access by the Graduate School at ScholarWorks at University of Montana. It has been accepted for inclusion in Graduate Student Theses, Dissertations, & Professional Papers by an authorized administrator of ScholarWorks at University of Montana. For more information, please contact [scholarworks@mso.umt.edu](mailto:scholarworks@mso.umt.edu).

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

by

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

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

MONTANA STATE UNIVERSITY

1952

UMI Number: EP39645

All rights reserved

INFORMATION TO ALL USERS

The quality of this reproduction is dependent upon the quality of the copy submitted.

In the unlikely event that the author did not send a complete manuscript and there are missing pages, these will be noted. Also, if material had to be removed, a note will indicate the deletion.

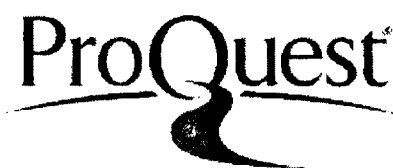


UMI EP39645

Published by ProQuest LLC (2013). Copyright in the Dissertation held by the Author.

Microform Edition © ProQuest LLC.

All rights reserved. This work is protected against unauthorized copying under Title 17, United States Code



ProQuest LLC.  
789 East Eisenhower Parkway  
P.O. Box 1346  
Ann Arbor, MI 48106 - 1346

This thesis has been approved by the Board of Examiners  
in partial fulfillment of the requirements for the degree of  
Master of Arts.

James E. Stout  
Chairman of the Board of Examiners

G. B. Castle  
Dean of the Graduate School

Date June 5 1952



FOIA(b)(7)

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.

TABLE OF CONTENTS

CHAPTER	PAGE
I. INTRODUCTION . . . . .	1
Statement of the problem . . . . .	1
Limitations of the study . . . . .	1
Background, setting and importance of the study . . .	1
Definitions of terms used . . . . .	3
List of abbreviations used . . . . .	5
Methods of procedure and sources of data . . . . .	6
Organization of the thesis . . . . .	7
II. DEVELOPMENT AND DESCRIPTION OF THE AIRMAN	
CAREER FIELD PROGRAM . . . . .	8
History of the present program . . . . .	8
Permanent nature of the program . . . . .	9
Provision for expansion of the program in case of emergency . . . . .	9
Description of the job progression chart . . . . .	9
Explanation of schools in the job progression ladder .	10
Explanation of pay grade data . . . . .	10
Relationship between job level and rank level . . . .	10
Description of Air Force Specialty Coding . . . . .	10
Description of Airmen Classification Test Battery	11
Description of cross training within a career field . .	14
Limitation of changing a career field . . . . .	14
III. SUGGESTED METHODS OF USING THE MANUAL . . . . .	15
Personnel using manual . . . . .	15
Use in the High School . . . . .	15

CHAPTER	PAGE
Use in the Junior College . . . . .	15
<b>IV. A MANUAL OF VOCATIONAL AND EDUCATIONAL TRAINING</b>	
OPPORTUNITIES IN THE UNITED STATES AIR FORCE . . . . .	17
Index to Chapter IV . . . . .	18
Occupational Areas . . . . .	22
Combat Support . . . . .	22
Electronics Engineering . . . . .	55
Maintenance Engineering . . . . .	86
Installations and Construction Engineering . . . . .	124
Logistics . . . . .	147
Personnel and Administration . . . . .	164
Comptroller . . . . .	184
Special Services . . . . .	196
<b>V. SUMMARY AND RECOMMENDATIONS FOR FURTHER STUDIES . . . . .</b>	<b>228</b>
The expanding Airman Career Program . . . . .	229
Implementation of the Officer Career Program . . . . .	230
Follow-up studies, based on this study . . . . .	230
<b>BIBLIOGRAPHY . . . . .</b>	<b>232</b>
<b>APPENDIX . . . . .</b>	<b>237</b>

LIST OF TABLES AND CHARTS

TABLE	PAGE
I. Grouping of Aptitude Tests in Aptitude Clusters in the Airman Classification Test Battery . . . . .	13
CHARTS (Career Field Job Progression Charts)	
I. Intelligence Career Field . . . . .	22
II. Photomapping . . . . .	29
III. Photographic . . . . .	33
IV. Weather . . . . .	38
V. Air Traffic Control and Warning . . . . .	44
VI. Communications Operations . . . . .	49
VII. Radio and Radar Maintenance . . . . .	55
VIII. Missile Guidance Systems . . . . .	60
IX. Armament Systems . . . . .	65
X. Weapons . . . . .	70
XI. Training Devices Maintenance . . . . .	73
XII. Wire Maintenance . . . . .	80
XIII. Intricate Equipment Maintenance . . . . .	86
XIV. Aircraft Accessories Maintenance . . . . .	95
XV. Aircraft and Engine Maintenance . . . . .	102
XVI. Rocket Propulsion . . . . .	116
XVII. Munitions and Weapons Maintenance . . . . .	118
XVIII. Vehicle Maintenance . . . . .	121
XIX. Metal working . . . . .	124
XX. Construction . . . . .	130
XXI. Utilities . . . . .	136

CHARTS	PAGE
XXII. Fabric, Leather and Rubber . . . . .	143
XXIII. Transportation . . . . .	147
XXIV. Food Service . . . . .	154
XXV. Supply . . . . .	158
XXVI. Procurement . . . . .	162
XXVII. Administration . . . . .	164
XXVIII. Printing . . . . .	167
XXIX. Information . . . . .	169
XXX. Personnel . . . . .	171
XXXI. Education . . . . .	175
XXXII. Entertainment . . . . .	178
XXXIII. Chaplain . . . . .	182
XXXIV. Management Methods . . . . .	184
XXXV. Budgetary, Accounting and Disbursing . . . . .	188
XXXVI. Statistical and Machine Accounting . . . . .	192
XXXVII. Medical . . . . .	196
XXXVIII. Rescue and Survival . . . . .	209
XXXIX. Ground Safety . . . . .	212
L. Marine . . . . .	214
LI. Firefighting . . . . .	217
LII. Security and Law Enforcement . . . . .	219
LIII. Special Services . . . . .	222

## 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;<sup>1</sup> 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

---

<sup>1</sup>Air Force Times. Published by the Army Times Publishing Company, 3132 M. St., N. W. Washington 7, D. C., dated January 26, 1952, p. 9.

for the next decade the United States will be obliged to maintain a sizable Air Force.<sup>2</sup>

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.<sup>3</sup>

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

---

<sup>2</sup>Newton E. James, "An Investigation of Factors Affecting the Scores Made on the Annual AF ROTC Achievement Examinations," (unpublished Master's Thesis, The University of Montana, Missoula, 1951), p. 1.

<sup>3</sup>Leslie L. Chisholm, Guiding Youth in the Secondary School (New York: American Book Company, 1945), p. 3.

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 hurdled.

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<sup>4</sup> 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 Code. It is the numerical code number given each Air Force Specialty, such as: "Senior Surveyor, (22250)" or "Apprentice Firefighter, (95130)."

---

<sup>4</sup>Editorial in The Daily Missourian, October 21, 1951.



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 ABC 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

mech. . . . . mechanic or mechanical  
ovhl. . . . . overhaul  
prop. . . . . propeller  
recpr. . . . . reciprocating  
Super. . . . . Supervisor  
Sr. . . . . Senior  
W.O . . . . . Warrant Officer

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<sup>5</sup> 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

---

<sup>5</sup>Air 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,<sup>6</sup> and necessary aptitudes.<sup>7</sup>

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.

---

<sup>6</sup>United States Navy Occupational Handbook, Bureau of Naval Personnel, Washington 25, D. C., November 1948, p. IX.

<sup>7</sup>Air Force Letter, 35-390, January 18, 1949, United States Government Printing Office, Washington, D. C.

## CHAPTER II

### DEVELOPMENT AND DESCRIPTION OF THE AIRMAN CAREER FIELD PROGRAM

Development of the present program. Prior to World War I, the training of the soldier was effected primarily on an apprenticeship 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<sup>1</sup> 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.<sup>2</sup> 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

---

<sup>1</sup>History of Classification in the Armed Forces. Training Project Outline, Research Branch, Lowry Air Force Base, Colorado, p. 3.

<sup>2</sup>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.<sup>3</sup>

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 peace time, 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.

---

<sup>3</sup>Ibid., p. 5.

Air Force Technical Schools are indicated by the symbol  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 data. 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 sub-division 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—43154, 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 (4) 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 35-443.

Description of the Airman Classification Test Battery. The Airman Classification Test Battery, given at the Indoctrination 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-1b as of 1949 consists of fourteen different tests.<sup>4</sup> 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

---

<sup>4</sup>Training Project Outline, number 31-11, Lowry Air Force Base, Colorado, not dated, p. 16.



have been grouped into homogeneous clusters. The eight clusters are: I--Mechanical, II--Clerical, III--Equipment Operator, IV--Radio Operator, VI--Technician Specialty, VII--Services, VIII--Craftsman, and VIII--Electronics.<sup>5</sup> 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 particular 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.

---

<sup>5</sup>Ibid., p. 22.

TABLE I

GROUPING OF APTITUDE TESTS IN APTITUDE CLUSTERS  
IN THE AIRMAN CLASSIFICATION TEST BATTERY

APTITUDE CLUSTERS	I Mechanical	II Clerical	III Equipment Operator	IV Radio Operator	VI Technician Specialty	VII Services	VIII Craftsman	IX Electronics
APTITUDE TESTS								
Arithmetic Reasoning					x	x		x
Aviation Information	x				x			
Background of Current Affairs		x			x			
Biographical Inventory	x	x	x	x		x	x	x
Dial and Table Reading	x	x	x	x	x		x	x
Electrical Information	x			x				x
General Mechanics	x		x					
Mechanical Principles	x							
Memory of Landmarks				x			x	
Numerical Operations		x		x				
Pattern Comprehension					x	x	x	
Speed of Identification				x				
Tools Functions							x	
Word Knowledge		x						

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.<sup>6</sup>

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.

---

<sup>6</sup> Lee J. Cronbach, Essentials of Psychological Testing (New York: Harper and Brothers, 1949), p. 174.

## 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

## INDEX TO CHAPTER IV

	Page
Administrative (Career Field) . . . . .	164
Administrative . . . . .	165
Aircraft Accessories Maintenance . . . . .	95
Supercharger . . . . .	96
Fuel Metering . . . . .	97
Propeller . . . . .	98
Mechanical Accessories and Equipment . . . . .	99
Hydraulic . . . . .	100
Aircraft Electrical Accessories . . . . .	101
Aircraft and Engine Maintenance . . . . .	102
Aircraft Maintenance . . . . .	103
Flight Engineer . . . . .	111
Aircraft Engine Overhaul . . . . .	112
Air Traffic Control and Warning . . . . .	44
Air Operations . . . . .	45
Air Traffic Operations and Ground Control Approach . . . . .	46
Aircraft Control and Warning . . . . .	47
Armament Systems . . . . .	65
Bomb-Navigation Systems . . . . .	66
Fire Control Systems . . . . .	67
Turret Systems . . . . .	68
Budgetary, Accounting and Disbursing . . . . .	188
Budget, Fiscal and Audit . . . . .	189
Disbursing . . . . .	190
Cost Analysis . . . . .	191
Chaplain . . . . .	182
Welfare . . . . .	183
Communications Operations . . . . .	49
Communications Center Operations . . . . .	50
Cryptographic Operations . . . . .	51
Radio Operations . . . . .	52
Construction . . . . .	130
Roads and Grounds . . . . .	131
Building Crafts . . . . .	132
Education . . . . .	175
Technical Training . . . . .	176
General Training . . . . .	177
Entertainment . . . . .	173
Band . . . . .	179
Athletic and Recreation . . . . .	180

	Page
Fabric, Leather and Rubber . . . . .	143
Parachute and Fabric . . . . .	144
Rubber Products Repair . . . . .	146
Firefighting . . . . .	217
Firefighting . . . . .	213
Food Service . . . . .	154
Baking . . . . .	155
Food Service . . . . .	156
Meat Cutting . . . . .	157
Ground Safety . . . . .	212
Ground Safety . . . . .	213
Information . . . . .	169
Information . . . . .	170
Intelligence . . . . .	22
Cryptanalysis . . . . .	23
Radio Traffic Analysis . . . . .	24
Language . . . . .	25
Intelligence Operations and Photographic Interpretation . . . . .	26
Technical Intelligence . . . . .	28
Intricate Equipment Maintenance . . . . .	86
Office Machine Repair . . . . .	87
Tabulating Equipment Repair . . . . .	88
Camera Repair . . . . .	89
Instrument Overhaul . . . . .	90
Medical Equipment Repair . . . . .	94
Marine . . . . .	214
Seaman . . . . .	215
Marine . . . . .	216
Management Methods . . . . .	184
Management Engineering . . . . .	185
Production Control . . . . .	186
Medical . . . . .	196
Aero Medical . . . . .	197
Medical Services . . . . .	198
Radiology . . . . .	200
Medical Laboratory . . . . .	201
Pharmacy . . . . .	202
Medical Administrative . . . . .	203
Preventive Medicine . . . . .	205
Veterinary . . . . .	206
Dental . . . . .	207



	Page
Metal working . . . . .	124
Machinist . . . . .	125
Metal Processing . . . . .	126
Sheet Metal . . . . .	127
Airframe Repair . . . . .	129
Missile Guidance Systems . . . . .	60
Command Missile . . . . .	61
Automatic Missile . . . . .	62
Preset Missile . . . . .	63
Missile Instrumentation . . . . .	64
Munitions and Weapons Maintenance . . . . .	113
Munitions . . . . .	119
Weapons . . . . .	120
Personnel . . . . .	171
Career Guidance . . . . .	172
Personnel . . . . .	173
Recruitment . . . . .	174
Photographic . . . . .	33
Aerial Photography . . . . .	34
Photography . . . . .	35
Motion Picture Photography . . . . .	36
Photomapping . . . . .	29
Cartographic . . . . .	30
Surveyor . . . . .	32
Printing . . . . .	167
Duplicating . . . . .	168
Procurement . . . . .	162
Procurement . . . . .	163
Radio and Radar Maintenance . . . . .	55
Radio Maintenance . . . . .	56
Radar Maintenance . . . . .	58
Rescue and Survival . . . . .	209
Rescue and Survival . . . . .	210
Rocket Propulsion . . . . .	116
Rocket Propulsion . . . . .	117
Security and Law Enforcement . . . . .	219
Air Police . . . . .	220
Investigation . . . . .	221

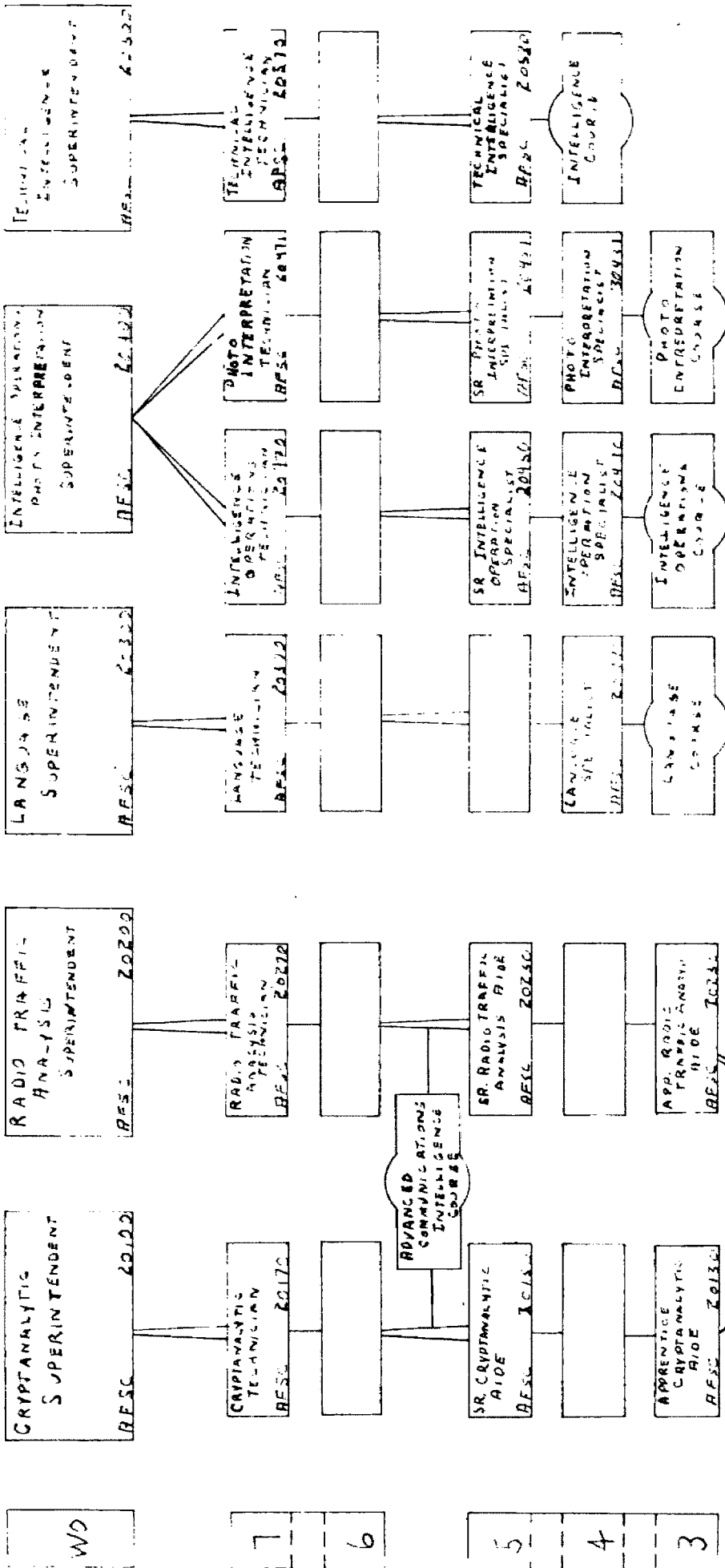
	Page
Special Services . . . . .	222
Simulated Trainer . . . . .	223
Railroad Equipment . . . . .	224
Illustrator Draftsman . . . . .	225
Laundry . . . . .	226
Radiological . . . . .	227
Statistical and Machine Accounting . . . . .	192
Statistical . . . . .	193
Machine Accounting . . . . .	194
Supply . . . . .	158
Supply . . . . .	159
Transportation . . . . .	147
Air Transportation . . . . .	148
Traffic Management . . . . .	150
Motor Transportation . . . . .	152
Training Devices Maintenance . . . . .	73
Instrument and Navigation Trainer Maintenance . . . . .	74
Bomb, Gunnery and Classroom Trainer . . . . .	76
Radio and Radar Trainer Maintenance . . . . .	79
Utilities . . . . .	136
Electrical Refrigeration . . . . .	137
Gas Generation . . . . .	139
Water Supply and Sanitation . . . . .	140
Plumbing . . . . .	141
Heating . . . . .	142
Vehicle Maintenance . . . . .	121
Vehicle Maintenance . . . . .	122
Weapons . . . . .	70
Weapons Electrical . . . . .	71
Weapons Mechanical . . . . .	72
Weather . . . . .	38
Weather Equipment Repair . . . . .	39
Weather Forecasting . . . . .	42
Wire Maintenance . . . . .	80
Outside Plant . . . . .	81
Inside Plant . . . . .	82
Communications Machine Maintenance . . . . .	84
Cryptographic Maintenance . . . . .	85

PAY GRADE

# INTELLIGENCE

# CAREER FIELD

AFR 35-420



INPUT OF 2 QUALIFIED PERSONNEL FROM THIS OR OTHER CAREER FIELDS

INPUT NORMALLY FROM COMMUNICATIONS OPERATIONS CAREER FIELD

2

CRYPTANALYTIC Sub-division

Senior Cryptanalytic Aide (20150)

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 encryptoment from external features of message. Sorts traffic in homogeneous groups. Decodes or decipheres messages. Supervises subordinate cryptanalytic personnel.

Job Requirements

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

Calls for a GCT 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	0-36.51
Cryptanalyst	0-36.33
Cryptographer	1-35.40
Statistical Clerk	1-36.01

Desirable Civilian School Courses

Algebra  
Statistics  
Typing  
Radio

Necessary Aptitudes

Airmen Classification Test Battery  
Technician Specialty

RADIO TRAFFIC ANALYSIS Sub-division

Senior Radio Traffic Analysis Aide (20250)

Job Description

Examines frequencies on which intercepted radio traffic was transmitted. Compiles and records frequency data and prepares circuit diagrams. Studies call signs appearing in intercepted radio traffic. Determines schedule of operation of radio networks. Classifies message priority indicators. Analyzes textual features of radio message. Draws net diagrams in either schematic or geographical design. Establishes geographic locations of radio stations. Supervises subordinate personnel. Schedules work assignments by priority and work load.

Job Requirements

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

Calls for a GCT 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	0-36.51
Radio Operator	0-61.30
Statistical Clerk	1-36.61
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 Sub-division

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 Form 1 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	0-63.31
Translator	0-63.32

Desirable Civilian School Courses

- Foreign Language
- Typing
- English
- Social Studies

Necessary Aptitudes

- Airman Classification Test Battery
- Technician Specialty

INTELLIGENCE OPERATIONS Sub-division

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 GCT 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**

Airmen 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 GCT 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

Draftsman, Map	0-48.15
Draftsman, Topographical	0-43.26
Compiler (Clerical)	1.36.06
Statistical Clerk	1.36.01

Desirable Civilian School Courses

Chemistry  
Physics  
Art  
Drafting

Necessary Aptitudes

Airmen Classification Test Battery  
Technician Specialty



TECHNICAL INTELLIGENCE Sub-division

Technical Intelligence Specialist (20530)

Job Description

Collects technical aeronautical intelligence information. Collates technical intelligence information. Records and segregates technical information. Evaluates technical intelligence information. Determines present and future need for and value of, information. Interprets technical intelligence information. Disseminates technical intelligence. Conducts or performs analysis of equipment and material. Compiles reports. Performs research and correlates facts and data on hand.

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 GCT 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	0-50.53
Inspector, Material Test	0-50.60
Investigator II	1-18.35
Aircraft Mechanic	5-00.120
Procurement Inspector (Acraft Mfg)	7-03.810

Desirable Civilian School Courses

Algebra  
Physics  
Auto or Aircraft Mechanics

Necessary Aptitudes

Airman Classification Test Battery  
Technician Specialty

# PHOTOMAPPING CAREER FIELD

PHOTOMAPPING  
SUPERINTENDENT  
AFSC 22000

CARTOGRAPHIC  
SUPERVISOR  
AFSC 22170

CARTOGRAPHIC  
TECHNICIAN  
AFSC 22171

SURVEYOR  
TECHNICIAN  
AFSC 22270

SENIOR  
CARTOGRAPHIC  
SPECIALIST  
AFSC 22150

SENIOR  
PHOTOGRAMMETRIST  
AFSC 22151

SENIOR  
SURVEYOR  
AFSC 22250

APPRENTICE  
CARTOGRAPHIC  
AFSC 22130

APPRENTICE  
PHOTOGRAMMETRIST  
AFSC 22131

APPRENTICE  
SURVEYOR  
AFSC 22230

CARTOGRAPHIC  
HELPER  
AFSC 22110

SURVEYOR  
HELPER  
AFSC 22210

BASIC  
AIRMAN  
AFSC 90010

ADVANCED  
CARTOGRAPHIC  
COURSE

ADVANCED  
SURVEYING AND  
COMPUTING  
COURSE

BASIC  
CARTOGRAPHIC  
COURSE

BASIC  
SURVEYOR AND  
COMPUTER  
COURSE

16X	GRADE
	10
	9
	8

	7
	6

	5
	4
	3

	2
	1

CARTOGRAPHIC Sub-division

Senior Cartographic Specialist (22150)

Job Description

Plots projections and controls. Plots various types projections such as Polyconic, Mercator, Lambert Conformal, Stereographic, Unomonic, and Transverse Mercator. Constructs maps, 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 GCT 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	0-48.15
Cartographer	0-48.15
Map Maker	0-48.15

Desirable Civilian School Courses

Mechanical Drawing  
Art (Perspective)  
Geometry  
Photography

Necessary Aptitudes

Airmen Classification Test Battery  
Technician Specialty

CANTONMENT Sub-division

Senior Photogrammetrist (22151)

Job Description

Plots and delineates data on aerial photographs. Computes depression angle and tilt, 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 photomapping equipment, measuring and computing chart and map data from aerial photographs.

Requires GCT score of 110 minimum or equivalent.

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

Involves slight physical effort.

Related Civilian Jobs

Map Draftsman	0-46.15
Cartographer	0-48.15
Draftsman Topographical	0-46.26

Desirable Civilian School Courses

Photography  
Art  
Mechanical Drawing

Necessary Aptitudes

Airmen Classification Test Battery  
Technician Specialty

SURVEYING Sub-division

Senior Surveyor (22250)

Job Description

Performs general classes of surveying such as cadastral, construction and geodetic surveys. Determines latitude, longitude and azimuth by use of astrolabe, zenith camera, theodolite, chronometer and radio. Develops 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 and shoran 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 GCT 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	0-04.10
Redman II	0-04.50
Chainman, Surveyor	7-87.200

Desirable Civilian School Courses

Algebra  
Geometry  
Trigonometry  
Mechanical Drawing

Necessary Aptitudes

Airmen Classification Test Battery  
Technician Specialty

# PHOTOGRAPHIC Career Field

AFR-55-425

Photographic  
SUPERINTENDENT  
AFSC 2500

[Empty Box]

PHOTOGRAPHIC  
TECHNICIAN  
AFSC 2510

[Empty Box]

PHOTOGRAPHIC  
SUPERVISOR  
AFSC 2520

[Empty Box]

AERIAL  
PHOTOGRAPHIC  
TECHNICIAN  
AFSC 2530

[Empty Box]

ADVANCED  
PHOTOGRAPHY  
COURSE

SENIOR  
AERIAL  
PHOTOGRAPHER  
AFSC 2540

[Empty Box]

APPRENTICE  
AERIAL  
PHOTOGRAPHER  
AFSC 2550

SENIOR  
PHOTOGRAPHER  
AFSC 2560

[Empty Box]

APPRENTICE  
PHOTOGRAPHER  
AFSC 2570

ADVANCED  
MOTION  
PICTURE  
COURSE

MOTION  
PICTURE  
TECHNICIAN  
AFSC 2580

[Empty Box]

SENIOR  
MOTION  
PICTURE  
SPECIALIST  
AFSC 2590

[Empty Box]

APPRENTICE  
MOTION  
PICTURE  
SPECIALIST  
AFSC 2600

PHOTOGRAPHIC  
CHIEF  
AFSC 2500

PHOTOGRAPHIC  
HELPER  
AFSC 2510

PHOTOGRAPHIC  
TRAINER  
AFSC 2520

1	2	3
---	---	---

4	5	6
---	---	---

7	8	9
---	---	---

10	11	12
----	----	----

AERIAL PHOTOGRAPHER Sub-division

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 speed and diaphragm opening 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 photomapping, charting, and reconnaissance.

Requires GCT 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	5-86.510

Desirable Civilian School Courses

Chemistry  
Physics  
Photography

Necessary Aptitudes

Airmen Classification Test Battery  
Technician Specialty

PHOTOGRAPHIC Sub-division

Senior Photographer (23250)

Job Description

Takes photographs and processes film and prints to produce various types of still photographs. Arranges subject matter for proper emphasis. Determines quality of film, cameras, lens, filters, viewfinder and other Auxiliary equipment. Processes photographic film. Develops negatives in trays, tanks or continuous processing machines. Produces positives or prints from negatives. Assembles uncontrolled mosaics. Supervises Photographic Laboratory crew.

Job requirements

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

Requires GCT 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	0-56.91
Photographer, Commercial	0-56.11
Photographer, Portrait	0-56.21
Darkroom man	5-56.510

Desirable Civilian School Courses

Chemistry  
Physics  
Art (General)  
Photography

Necessary Aptitudes

Airman Classification Test Battery  
Technician Specialty



MOTION PICTURE Sub-division

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. Test 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 GCT 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.)	0-56.41
Motion Picture Projectionist	5-55.010
Editor, News Reel	6-06.26

**Desirable Civilian School Courses**

Art  
Photography  
Chemistry  
Physics

**Necessary Aptitudes**

Airmen Classification Test Battery  
Technician Specialty

MOTION PICTURE Sub-division

Senior Motion Picture Specialist (23351)

**Job Description**

Operates and performs organizational 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 GCT 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**

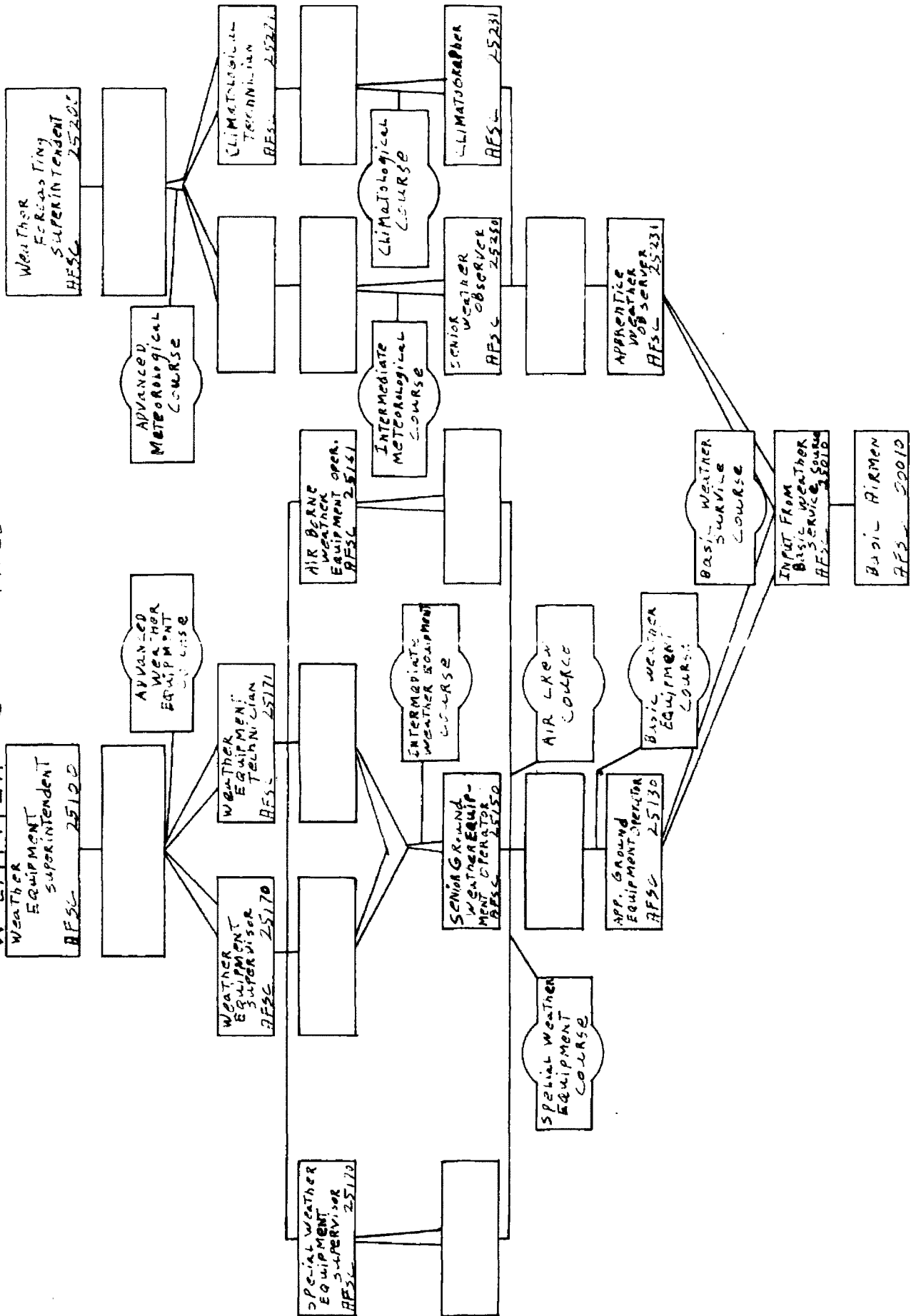
Physics  
Electricity  
Photography

**Necessary Aptitudes**

Airmen Classification Test Battery  
Electronics  
Technician Specialty

# WEATHER Career Field

AFSC 35-425



WEATHER EQUIP LMT Sub-division

Special Weather 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 GAT 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

O-66.88

Desirable Civilian School Courses

Electricity

General Shop

Physics

Necessary Aptitudes

Airmen Classification Test Battery

Mechanical

Equipment Operator

Technician Specialty

Electronics

WEATHER EQUIPMENT Sub-division

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

0-66.88

Desirable Civilian School Courses

Electricity  
General Shop  
Physics

Necessary Aptitudes

Airmen Classification Test Battery  
Mechanical  
Equipment Operator  
Technician Specialty  
Electronics

WEATHER EQUIPMENT Sub-division

Senior Ground Weather Equipment Operator (25150)

**Job Description**

Operates and performs organizational maintenance on electronic equipment utilized in observing weather and earthquake phenomena. Operates radiosonde, radar storm, and related electronic weather equipment. Adjusts and repairs equipment. Maintains operating log of equipment. Supervises subordinate weather equipment operator personnel.

**Job Requirements**

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

Requires GCT 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

O-66.58

**Desirable Civilian School Courses**

Physics  
General Shop  
Electricity

**Necessary Aptitudes**

Airmen Classification Test Battery  
Electronics  
Equipment Operator  
Technician Specialty

WEATHER FORECASTING Sub-division

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 analysis of data obtained.

Calls for a GCT 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

O-66,88

**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 GCT 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 TRAFFIC CONTROL AND WARNING CAREER FIELD

PAY GRADE

WO

7  
6

5  
4  
3

2

AFR 35-427

AIR TRAFFIC CONTROL AND WARNING SUPERINTENDENT  
BESC 27000

AIR TRAFFIC CONTROL TECHNICIAN  
BESC 27220

AIR OPERATIONS SUPERVISOR  
BESC 27170

AIRCRAFT CONTROL AND WARNING SUPERVISOR  
BESC 27370

AIR TRAFFIC CONTROL OPERATOR  
BESC 27130

SENIOR AIR OPERATIONS SPECIALIST  
BESC 27150

SENIOR AIR TRAFFIC CONTROL OPERATOR  
BESC 27251

AIRCRAFT LANDING CONTROL OPERATOR  
BESC 27232

SENIOR AIRCRAFT CONTROL AND WARNING OPERATOR  
BESC 27350

SENIOR AIRCRAFT AND WARNING OBSERVER  
BESC 27351

AIR TRAFFIC CONTROL COURSE

APPRENTICE AIR OPERATIONS SPECIALIST  
BESC 27131

APPRENTICE AIR TRAFFIC CONTROL OPERATOR  
BESC 27231

AIRCRAFT LANDING CONTROL COURSE

APPRENTICE AIRCRAFT CONTROL AND WARNING OPERATOR  
BESC 27330

AIRCRAFT AND WARNING OBSERVER  
BESC 27331

BASIC AIR OPERATIONS COURSE

BASIC AIR OPERATIONS COURSE

BASIC AIR TRAFFIC CONTROL COURSE

BASIC AIRCRAFT LANDING CONTROL COURSE

BASIC AIRCRAFT CONTROL AND WARNING COURSE

ENTRY GRADE COMMUNICATION OPERATIONS WITH RELATED SERVICES FIELD



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 GCT 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 GCT 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**

Airmen 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 GCT 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

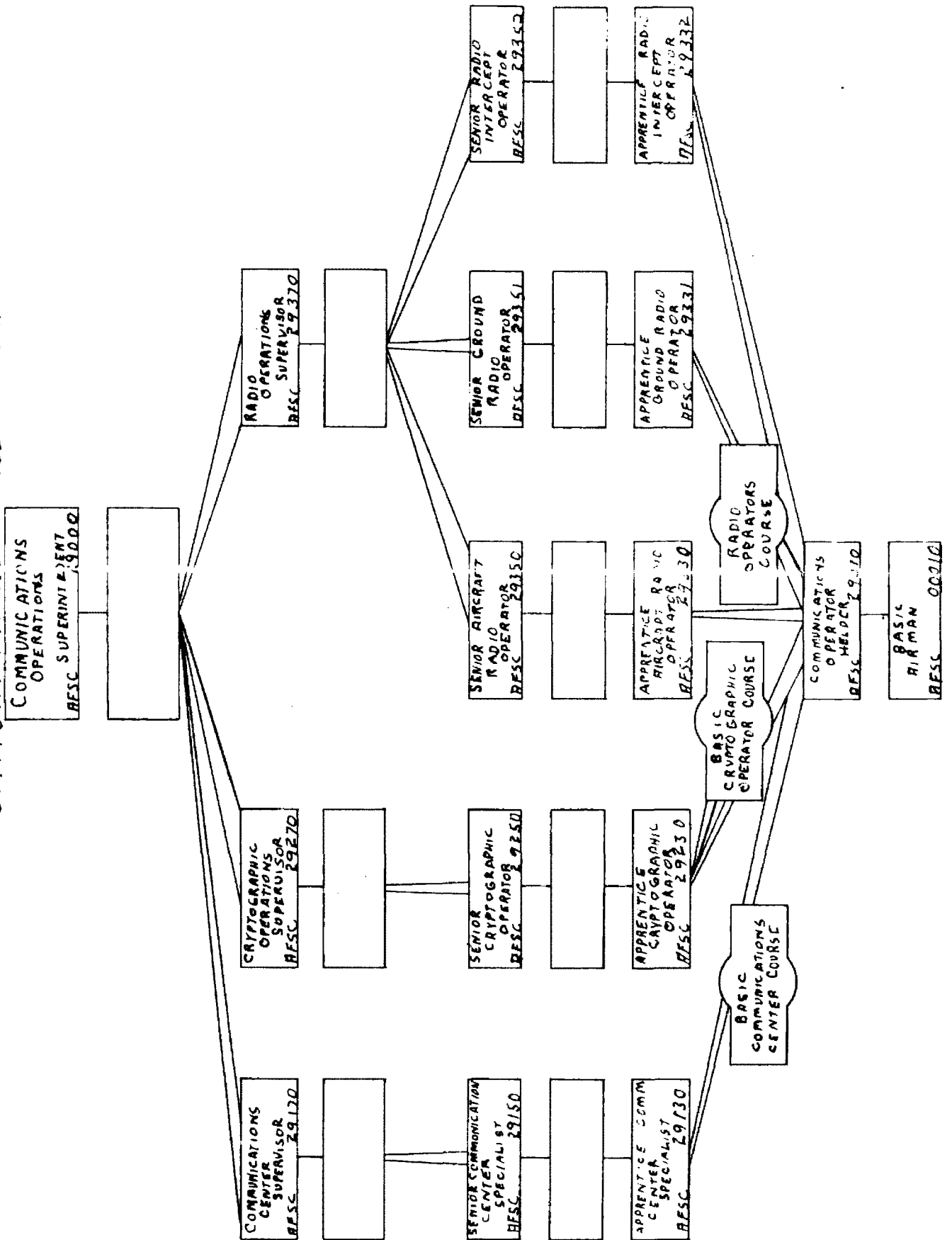
**Desirable Civilian School Courses**

General Shop  
Electricity  
Radio  
Physics

**Necessary Aptitudes**

Airmen Classification Test Battery  
Clerical  
Radio Operator  
Electronics

# COMMUNICATIONS CAREER FIELD



COMMUNICATIONS CENTER Sub-division

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 communication 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
Photradio 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 GCT 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

RADIO OPERATIONS Sub-division

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-telephone 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

Intercepts and records radio communications signals. Sets up radio receiving and direction finding equipment. Intercepts communications signals. Makes type-written transcript of intercepted code signals. Operates direction finding equipment. Conducts frequency search missions. Services printed and facsimile copy. Performs preventive maintenance on equipment. Supervises radio intercept operators and apprentices.

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 GCT 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

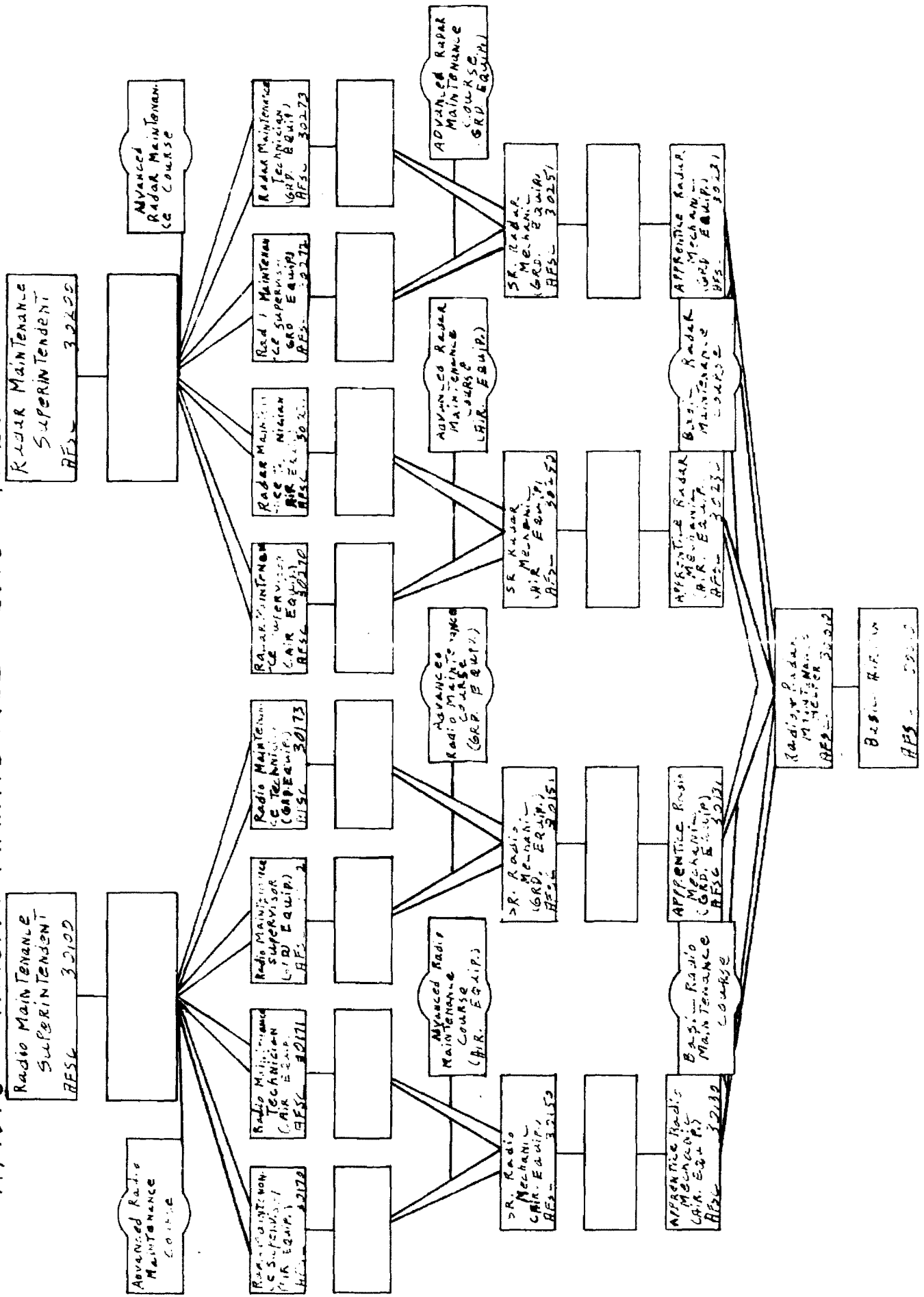
Electricity  
Speech  
Radio  
Typing

Necessary Aptitudes

Airmen Classification Test Battery  
Radio Operator  
Electronics

# RADIO - RADAR MAINTENANCE Career Field

AFR-35-430



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 GCT 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	5-83.447
Radio Repairman I	5-83.411

**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	5-83.447
Radio Repairman I	5-83.411

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 GCT 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	5-83.447
Radio Repairman I	5-83.411

**Desirable Civilian School Courses**

Radio  
Electricity  
Physics

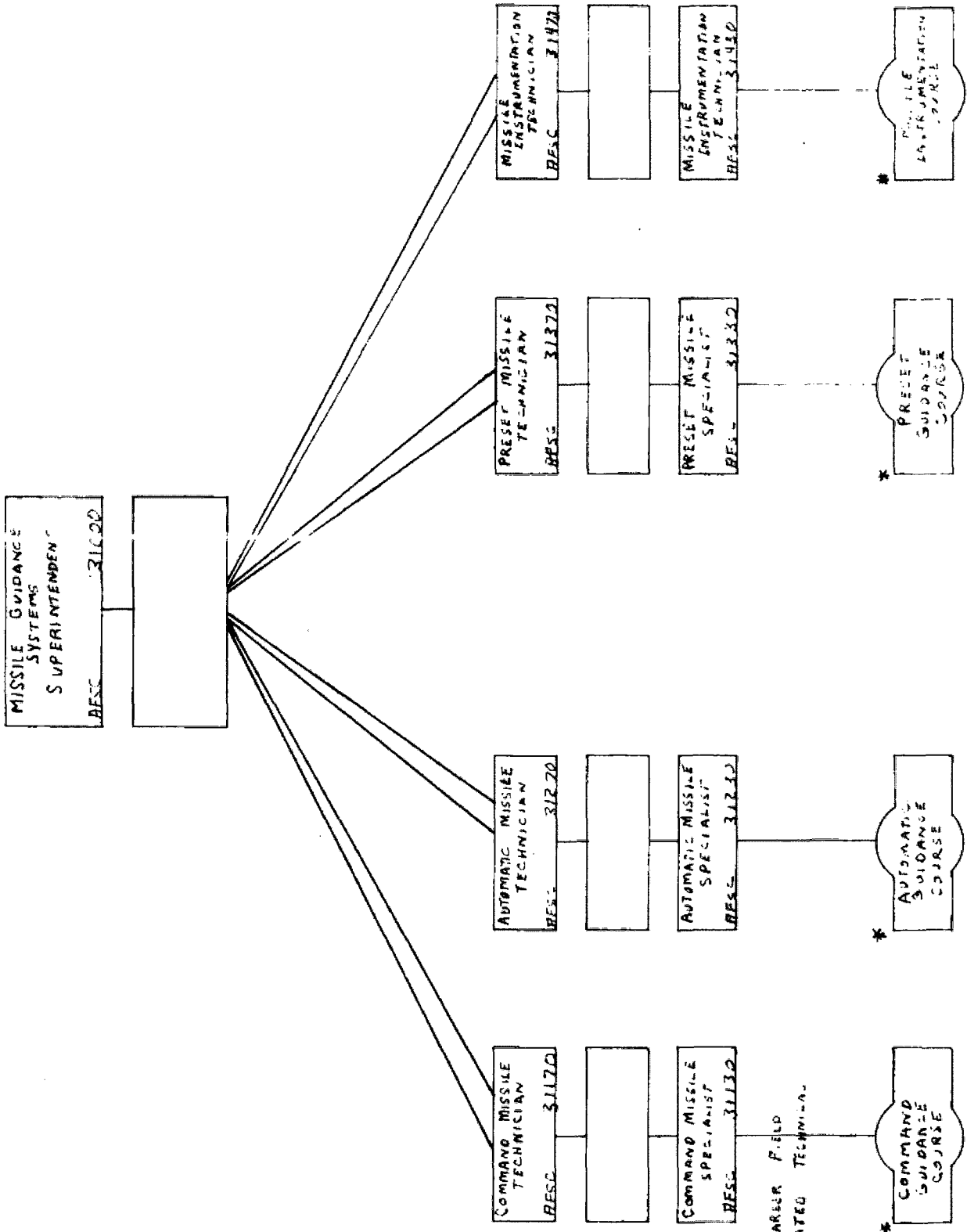
**Necessary Aptitudes**

Airmen Classification Test Battery  
Electronics  
Mechanical



# MISSILE GUIDANCE SYSTEM CAREER FIELD

AFR 35-431



\* TO THIS CAREER FIELD FROM ANY RELATED TECHNICAL FIELD.

COMMAND MISSILE Sub-division

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. Analyzes 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 GCT 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**

Airmen 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 selsyns and assembles, places, connects and inter-wires 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

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 electro-mechanical 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 CCT 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

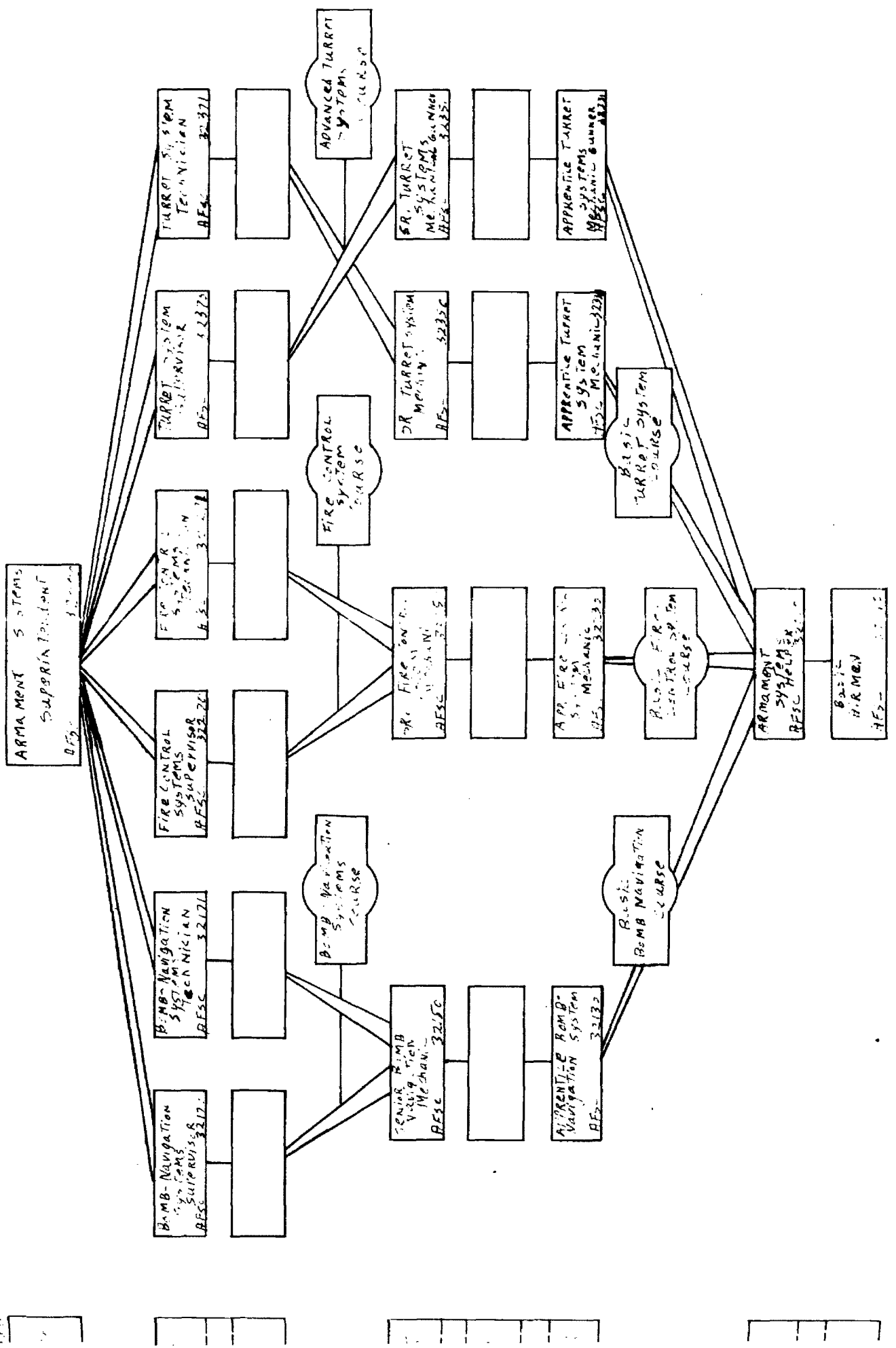
**Desirable Civilian School Courses**

Radio  
Electricity  
Algebra  
Trigonometry  
Physics

**Necessary Aptitudes**

Airmen Classification Test Battery  
Electronics

# ARMAMENT SYSTEM MAINTENANCE Career Field



BOMB NAVIGATION SYSTEMS Sub-division

Senior Bomb-Navigation Systems Mechanic (32150)

Job Description

Isolates unit malfunctions. Performs organizational and field maintenance on bomb-navigation system assemblies. Maintains bomb sights and components. Checks operation of and performs maintenance on optical and stabilization units and their associated loops. Maintains bomb-navigation radar interconnection equipment. Checks and maintains bomb-navigation computer system. Checks and maintains electronic automatic pilot and compass system. Completes maintenance and inspection records. Supervises and instructs subordinate mechanics.

Job Requirements

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

Calls for a GCT 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**

Analyzes 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 readies 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-rocket 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



TURRET SYSTEMS Sub-division

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 thyratron 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 GCT 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**

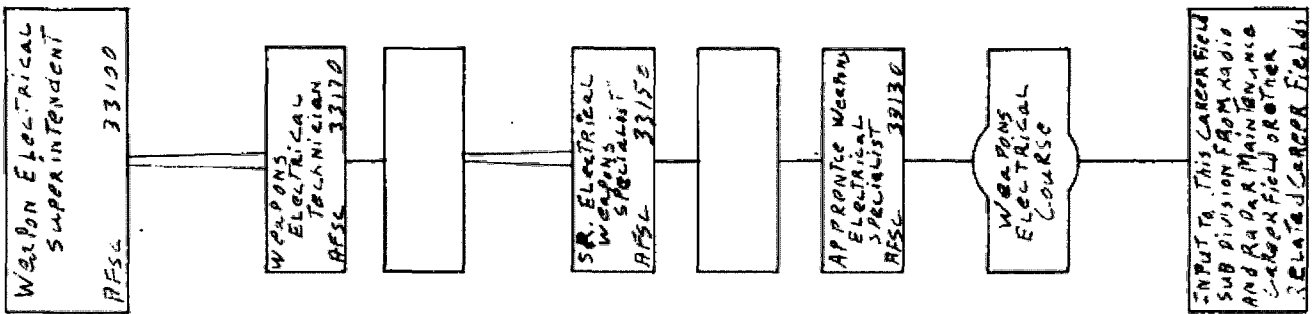
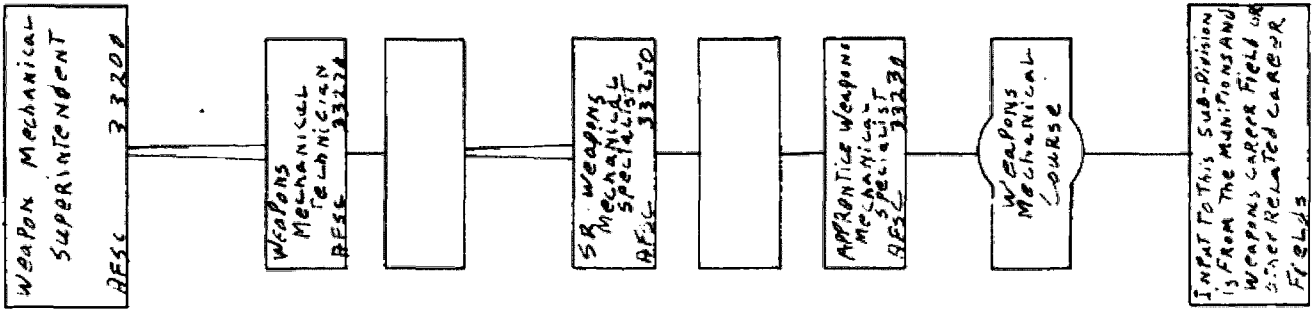
Electricity  
Radio  
Machine Shop  
Physics

**Necessary Aptitudes**

Airmen Classification Test Battery  
Mechanical  
Electronics

# WEAPONS Career Field

AFR-35-433



WEAPONS ELECTRICAL Sub-division

Senior Weapons Electrical Specialist (33150)

**Job Description**

Assembles and maintains electrical components of weapons. Prepares test equipment and components for tests. Checks circuits, voltage, and operation of automatic switches with analyzers, frequency meters, voltmeters, and specialized electrical and electronic measuring devices. Salvages and repairs unexploded munitions. Repairs electrical actuating mechanisms. Supervises apprentice weapons electrical specialists.

**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	5-83.477
Radio Repairman I	5-83.411
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

WEAPONS MECHANICAL Sub-division

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 desiccators 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 GCT 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	4-52.481
Inspector IV	4-52.483
Powderman	6-54.092

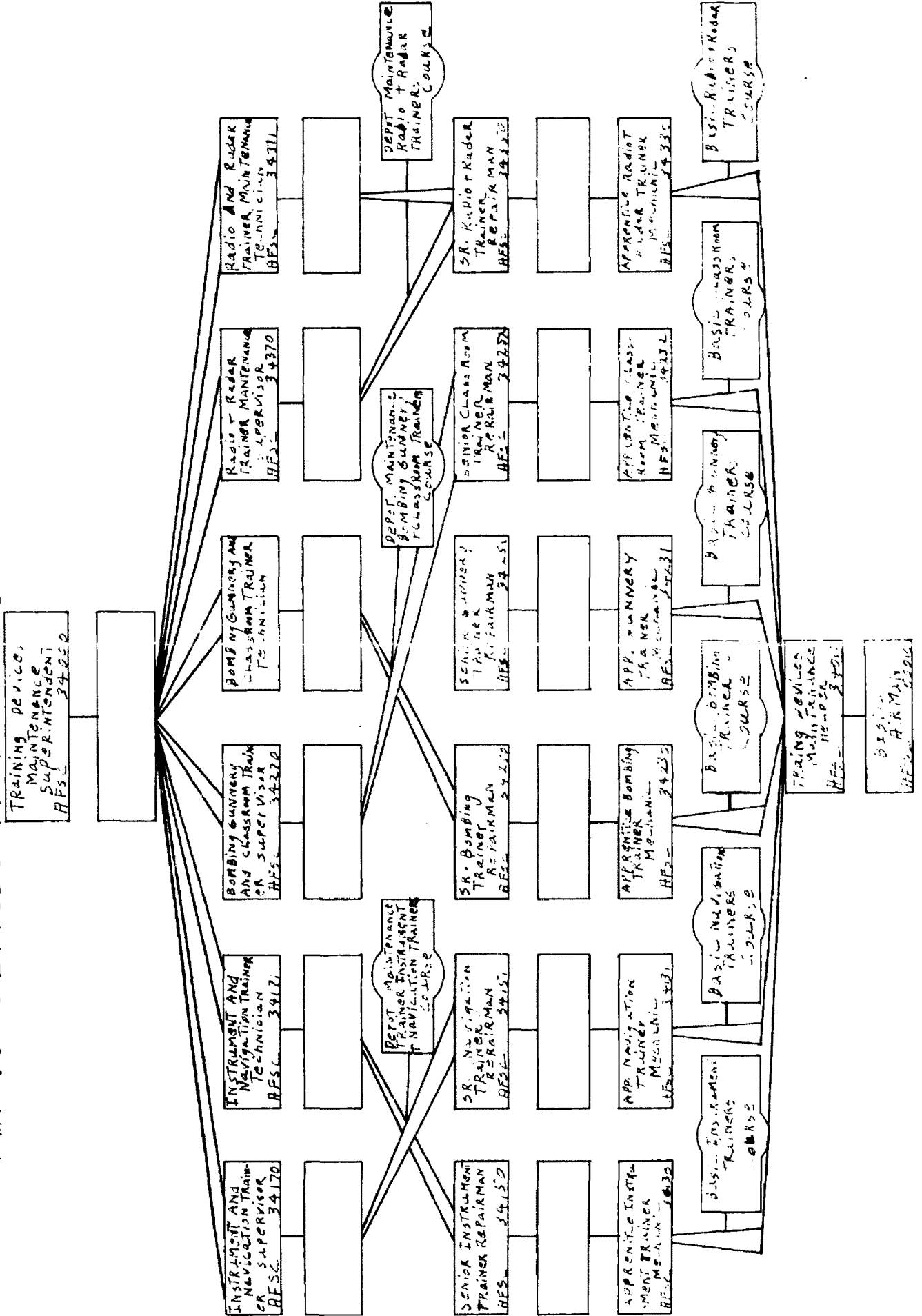
Desirable Civilian School Courses

Electricity  
Machine Shop  
Mechanical Drawing

Necessary Aptitudes

Airmen Classification Test Battery  
Mechanical  
Electronics

# TRAINING DEVICES MAINTENANCE Career Field



**INSTRUMENT AND NAVIGATION TRAINER Sub-division**

**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 GCT 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 (34350)**

**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, bombing 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	5-83.972

**Desirable Civilian School Courses**

Machine Shop  
Mechanical Drawing  
Electricity  
Physics

**Necessary Aptitudes**

Airmen Classification Test Battery  
Mechanical  
Electronics

BOMBING, GUNNERY AND CLASSROOM TRAINER Sub-division

Senior Gunnery Trainer Repairman (34251)

**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

**BOMBING, GUNNERY AND CLASSROOM TRAINER Sub-division**

**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	5-83.447
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

# WIRE MAINTENANCE CAREER FIELD

WIRE MAINTENANCE SUPERINTENDENT  
BESC



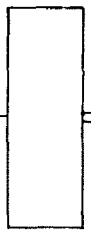
WIRE MAINTENANCE SUPERVISOR (INSIDE PLANT)  
BESC 36270



WIRE MAINTENANCE SUPERVISOR (OUTSIDE PLANT)  
BESC 36270



SENIOR INSTALLER CABLEMAN  
BESC 36150



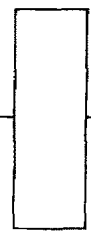
SENIOR CARRIER REPEATER MECHANIC  
BESC 36251



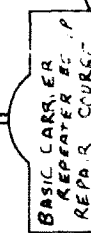
SENIOR CENTRAL OFFICE EQUIP. MECHANIC  
BESC 36250



APPRENTICE INSTALLER CABLEMAN  
BESC 36130



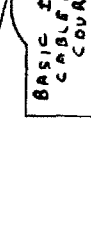
APPRENTICE CARRIER REPEATER MECHANIC  
AESC 36231



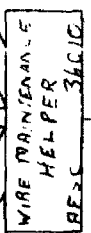
APPRENTICE CENTRAL OFFICE EQUIP. MECHANIC  
BESC 36230



BASIC INSTALLER CABLEMAN COURSE



BASIC CARRIER REPEATER REPAIR COURSE



BASIC CENTRAL OFFICE EQUIP. COURSE



WIRE MAINTENANCE HELPER  
BESC 36210

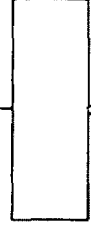
BASIC AIRMAN  
BESC 00210

ADVANCED WIRE MAINTENANCE REPAIR COURSE

COMMUNICATIONS MACHINE MAIN. SUPERVISOR  
BESC 36370



SENIOR COMMUNICATIONS MACHINE REPAIR MAN  
BESC 36350



CRYPTOGRAPHIC MAINTENANCE TECHNICIAN  
BESC 36371



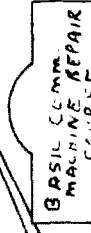
SENIOR CRYPTOGRAPHIC MACHINE REPAIR MAN  
BESC 36351



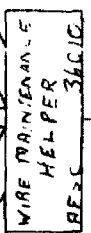
CRYPTOGRAPHIC MACHINE REPAIR COURSE



APPRENTICE COMM. MACHINE REPAIR MAN  
BESC 36330



BASIC COMM. MACHINE REPAIR COURSE



GRADE			
WVC			
MO			

7			
6			

5			
4			
3			


WIRE MAINTENANCE (OUTSIDE PLANT) Sub-division

Senior Installer--Cableman (36150)

Job Description

Installs and maintains telephone subsets and inter-office 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	5-53.410
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

WIRE MAINTENANCE (INSIDE PLANT) Sub-division

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
Frameman III (tel. & tel.)	7-53.020

**Desirable Civilian School Courses**

- Electricity
- Physics
- Machine Shop
- Mechanical Drawing

**Necessary Aptitudes**

- Airmen Classification Test Battery
- Mechanical



COMMUNICATIONS MACHINE MAINTENANCE Sub-division

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 GCT 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

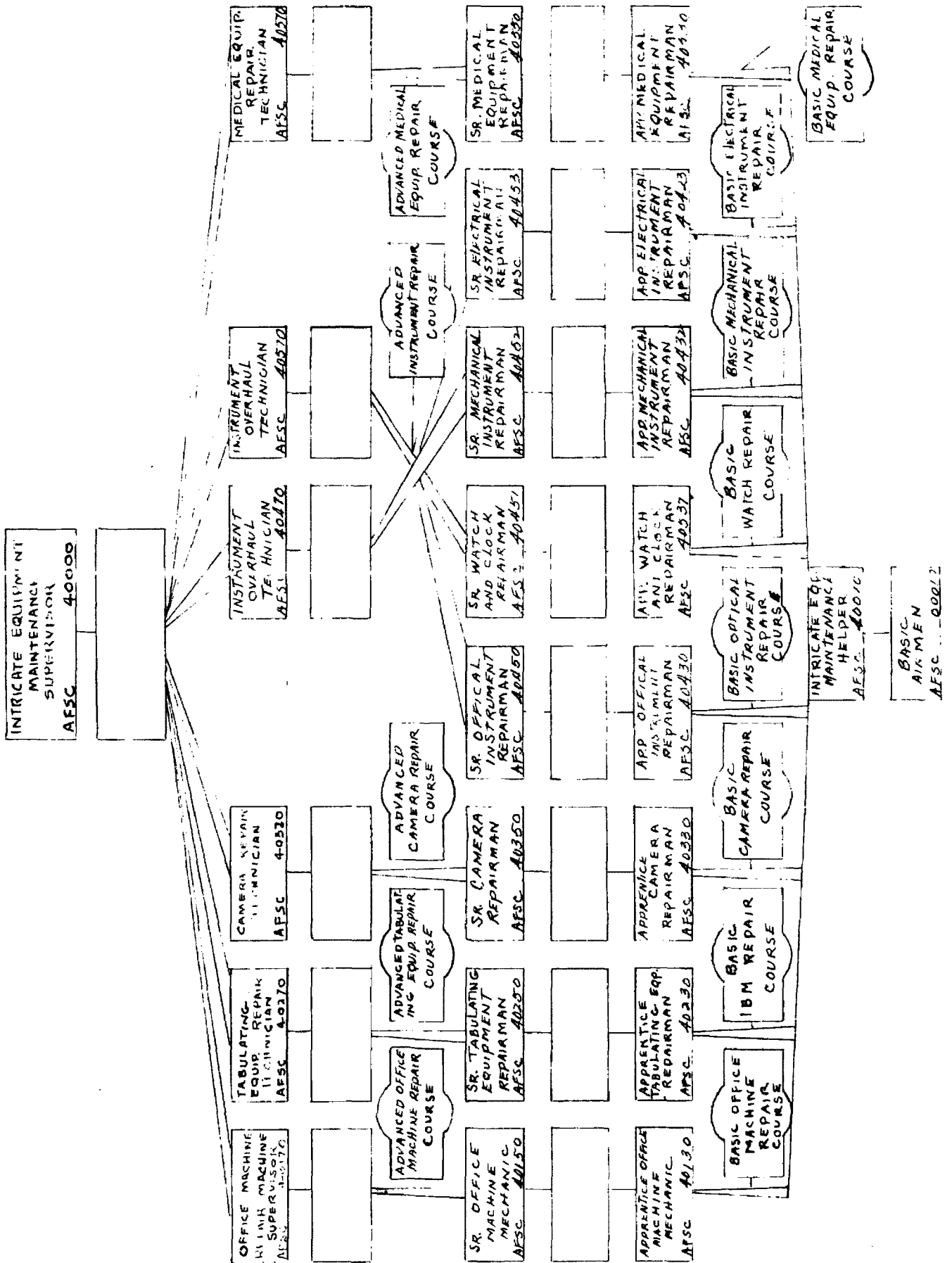
Electricity  
Radio  
Physics  
Mechanical Drawing

Necessary Aptitudes

Airmen Classification Test Battery  
Mechanical  
Electronics

# INTRICATE EQUIPMENT MAINTENANCE CAREER FIELD

AFR 35440



OFFICE MACHINE 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 GCT 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 5-83.121

**Desirable Civilian School Courses**

Business Machines  
Typing  
Electricity  
Machine Shop

**Necessary Aptitudes**

Airmen Classification Test Battery  
Mechanical  
Electronics

CAMERA REPAIR Sub-division

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 (M-9), gyro stabilized drift meters, nonstabilized drift meters, gunsights (K-14), and periscopic 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

Airman Classification Test Battery  
Mechanics  
Electronics

**INSTRUMENT OVERHAUL Sub-division**

**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	4-75.130
Instrument Inspector I	5-83.973
Instrument Man IV	5-83.972

**Desirable Civilian School Courses**

Machine Shop  
Mechanical Drawing

**Necessary Aptitudes**

Airmen Classification Test Battery  
Mechanical  
Electronics



**INSTRUMENT OVERHAUL Sub-division**

**Senior Mechanical Instrument Repairman (40432)**

**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

INSTRUMENT OVERHAUL Sub-division

Senior Electrical Instrument Repairman (40453)

**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 magnesyn 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 Man 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 (40550)**

**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**

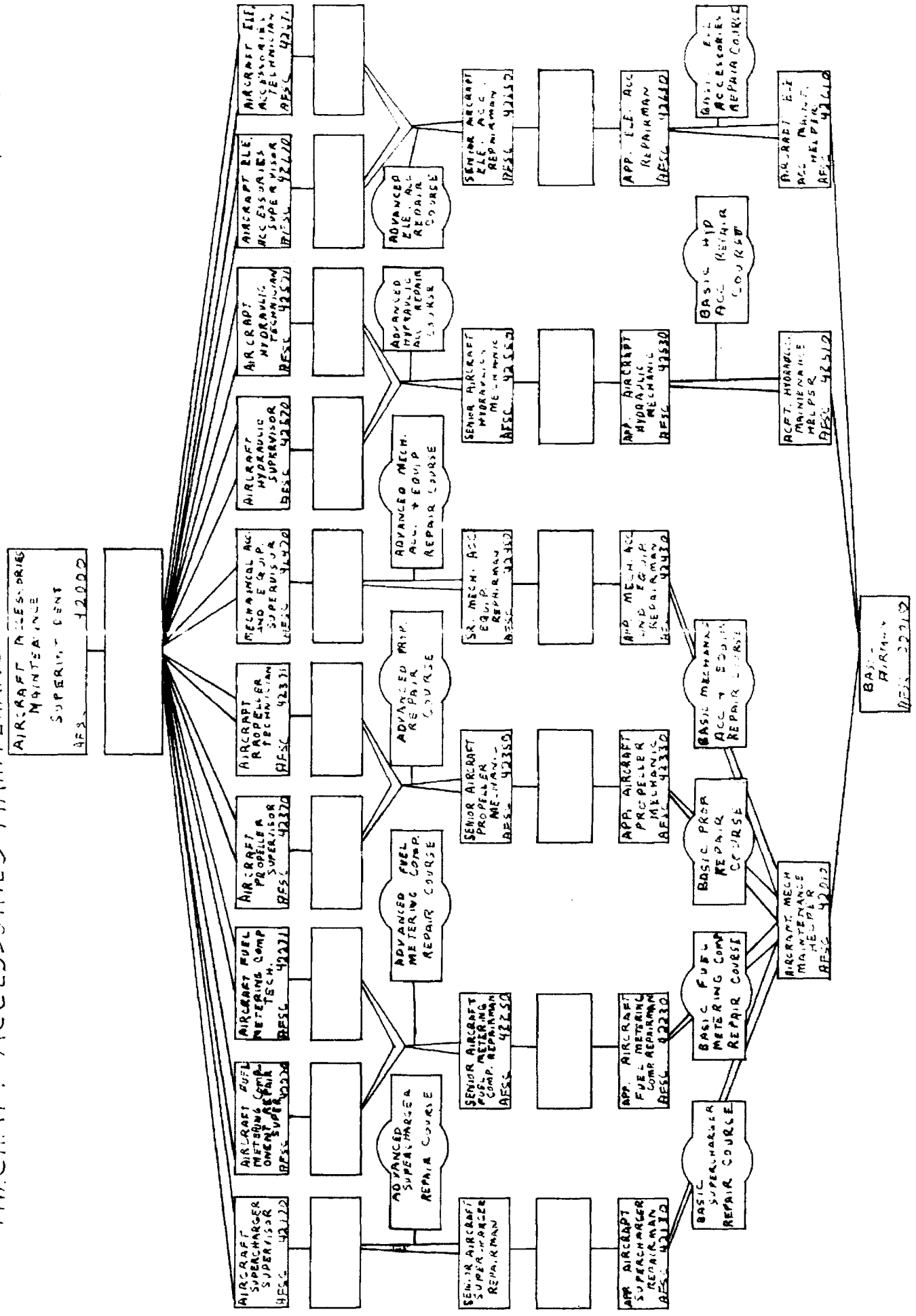
Electricity  
Machine Shop  
Mechanical Drawing

**Necessary Aptitudes**

Airmen Classification Test Battery  
Mechanical  
Electronics

# AIRCRAFT ACCESSORIES MAINTENANCE Career Field

DIR 1110



**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**

Airmen Classification Test Battery  
Mechanical

**AIRCRAFT FUEL METERING COMPONENT Sub-division**

**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. Accomplishes 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 GCT 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



AIRCRAFT HYDRAULIC MAINTENANCE Sub-division

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

**AIRCRAFT ELECTRICAL ACCESSORIES MAINTENANCE Sub-division**

**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, dips 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	4-97.010
Electrical Instrument Repairman	5-00.911
Electrician, Airplane	4-97.910
Shop Electrician	4-97.220

**Desirable Civilian School Courses**

Electricity  
Machine Shop  
Physics

**Necessary Aptitudes**

Airmen Classification Test Battery  
Mechanical



AIRCRAFT MAINTENANCE Sub-division

Senior Rotary Wing Mechanic (43150)

**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 5-80.100

**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**

Performs organizational and field maintenance on aircraft. Performs inspections of aircraft structures, landing gear, engines, superchargers, instruments, cockpits, cabins, flight surfaces and controls, hydraulic, electrical, oxygen, heating, pressurizing, fuel, lubrication, de-icing, vacuum, cooling and inductions systems. Accomplishes minor maintenance on engines, instruments, and aircraft systems. Performs aircraft servicing. Performs minor sheet metal and fabric work. Performs emergency crash work. Supervises small crew of aircraft mechanics and helpers.

**Job Requirements**

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

Calls for GCT 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 5-80.100

**Desirable Civilian School Courses**

Auto Mechanics  
Machine Shop  
Welding  
Mechanical Drawing

**Necessary Aptitudes**

Airmen Classification Test Battery  
Mechanical

AIRCRAFT MAINTENANCE Sub-division

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 5-80.100

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 (43153)

**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, barometrics, 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 GCT 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 5-80.100

**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 GCT 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 GCT 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

AIRCRAFT MAINTENANCE Sub-division

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, gyroscyn compasses, 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

AIRCRAFT MAINTENANCE Sub-division

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 (43271)

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 5-80.100

Desirable Civilian School Courses

Auto Mechanics  
Electricity  
Machine Shop  
Mechanical Drawing

Necessary Aptitudes

Airmen Classification Test Battery  
Mechanical

AIRCRAFT ENGINE OVERHAUL Sub-division

Senior Aircraft Reciprocating Engine Block Test Mechanic (43350)

**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

5-80.100

**Desirable Civilian School Courses**

Auto Mechanics

Electricity

General Shop

**Necessary Aptitudes**

Airmen Classification Test Battery

Mechanical

AIRCRAFT ENGINE OVERHAUL Sub-division

Senior Aircraft Reciprocating Engine Repairman (43351)

**Job Description**

Overhauls aircraft reciprocating engines. Disassembles engines. Removes individual assemblies. Routes parts to specialized departments for rework. Performs final assembly. Times and adjusts valves. Installs all accessories.

**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

AIRCRAFT ENGINE OVERHAUL Sub-division

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 GCT 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 5-80.100

**Desirable Civilian School courses**

Auto Mechanics  
Physics  
General Shop

**Necessary Aptitudes**

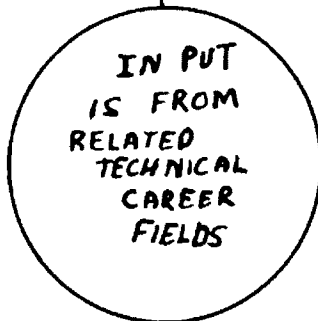
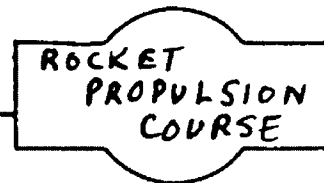
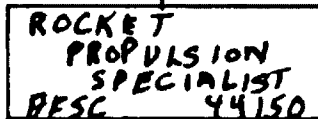
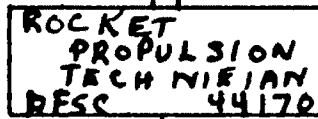
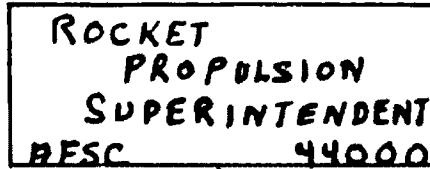
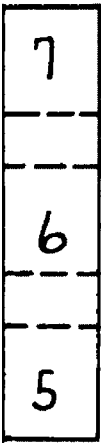
Airmen Classification Test Battery  
Mechanical



# ROCKET PROPULSION CAREER FIELD

AFR 35-444

PAY GRADE



ROCKET PROPULSION Career Field

Rocket Propulsion Technician (44170)

**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 GCT 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 + WEAPONS MAINTENANCE Career Field

AFR-35-476

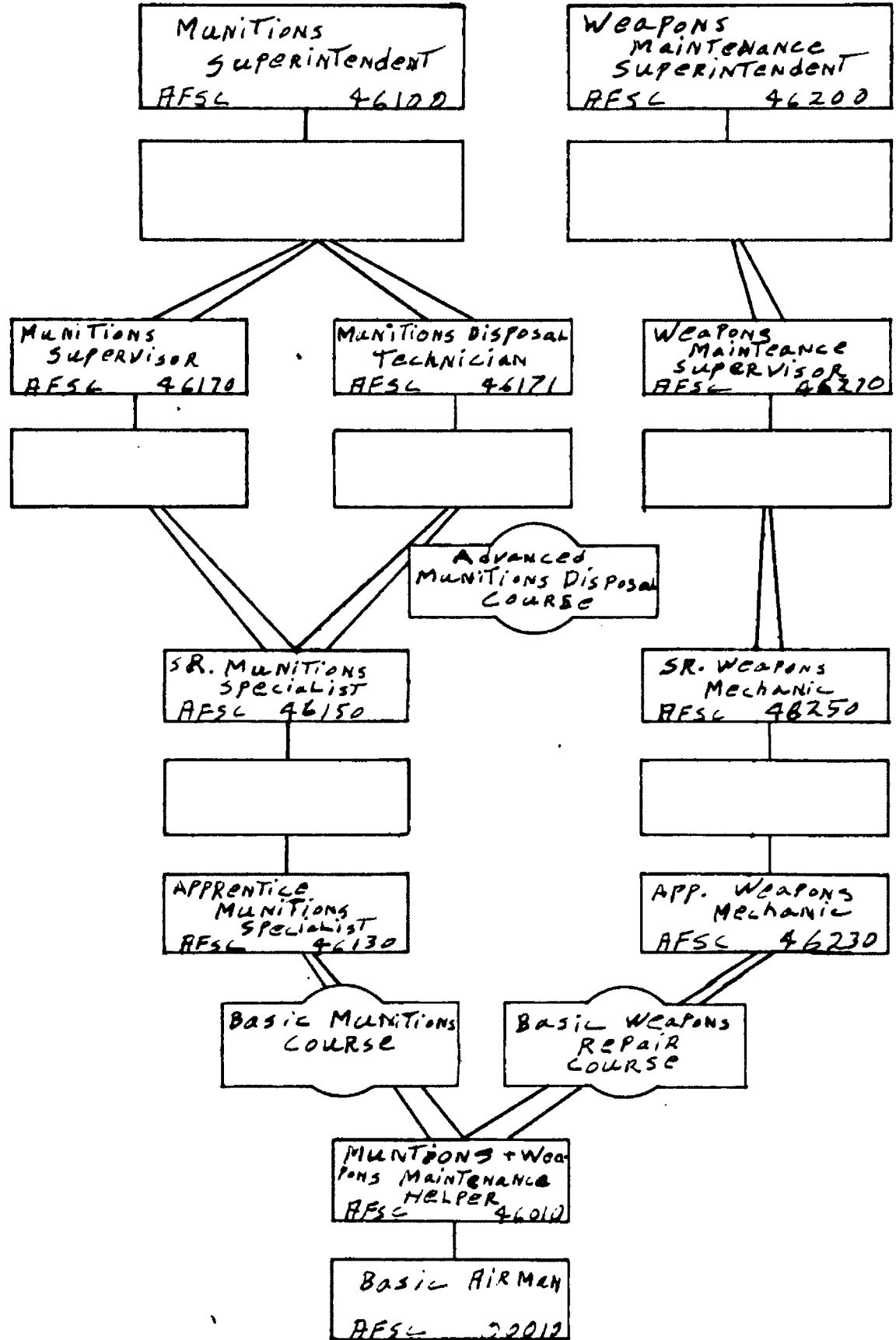
Pay Grade

CWO
WO

7
6

5
4
3

2
1



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 GCT 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**

Airman Classification Test Battery  
Mechanical

WEAPONS MAINTENANCE Sub-division

Senior Weapons Mechanic (46250)

**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 cleanness 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 GCT 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**

Airmen Classification Test Battery  
Mechanical

Pay  
Grade

# VEHICLE MAINTENANCE Career Field AFR-35-497

6
5
4
3
2
1

Vehicle Maintenance  
SUPERINTENDENT  
AFSC 47000

[Empty Box]

7
6

Vehicle Maintenance  
SUPERVISOR  
AFSC 47178

Vehicle Maintenance  
TECHNICIAN  
AFSC 47171

[Empty Box]

[Empty Box]

Advanced Vehicle  
Maintenance  
Course

5
4
3

Sr. Construction  
Equipment  
Mechanic  
AFSC 47150

Sr. Automotive  
Mechanic  
AFSC 47151

[Empty Box]

[Empty Box]

App. Construction  
Equipment  
Mechanic  
AFSC 47170

App. Automotive  
Mechanic  
AFSC 47171

2
1

Basic Const. Equip.  
Maintenance  
Course

Vehicle Maintenance  
HELPER  
AFSC 47012

Basic Automotive  
Maintenance  
Course

Basic  
AIRMAN  
AFSC 00012

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 of 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 GCT 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	5-81.010
Automobile Accessories Installer	7-83.981

Desirable Civilian School Courses

Auto Mechanics  
Welding

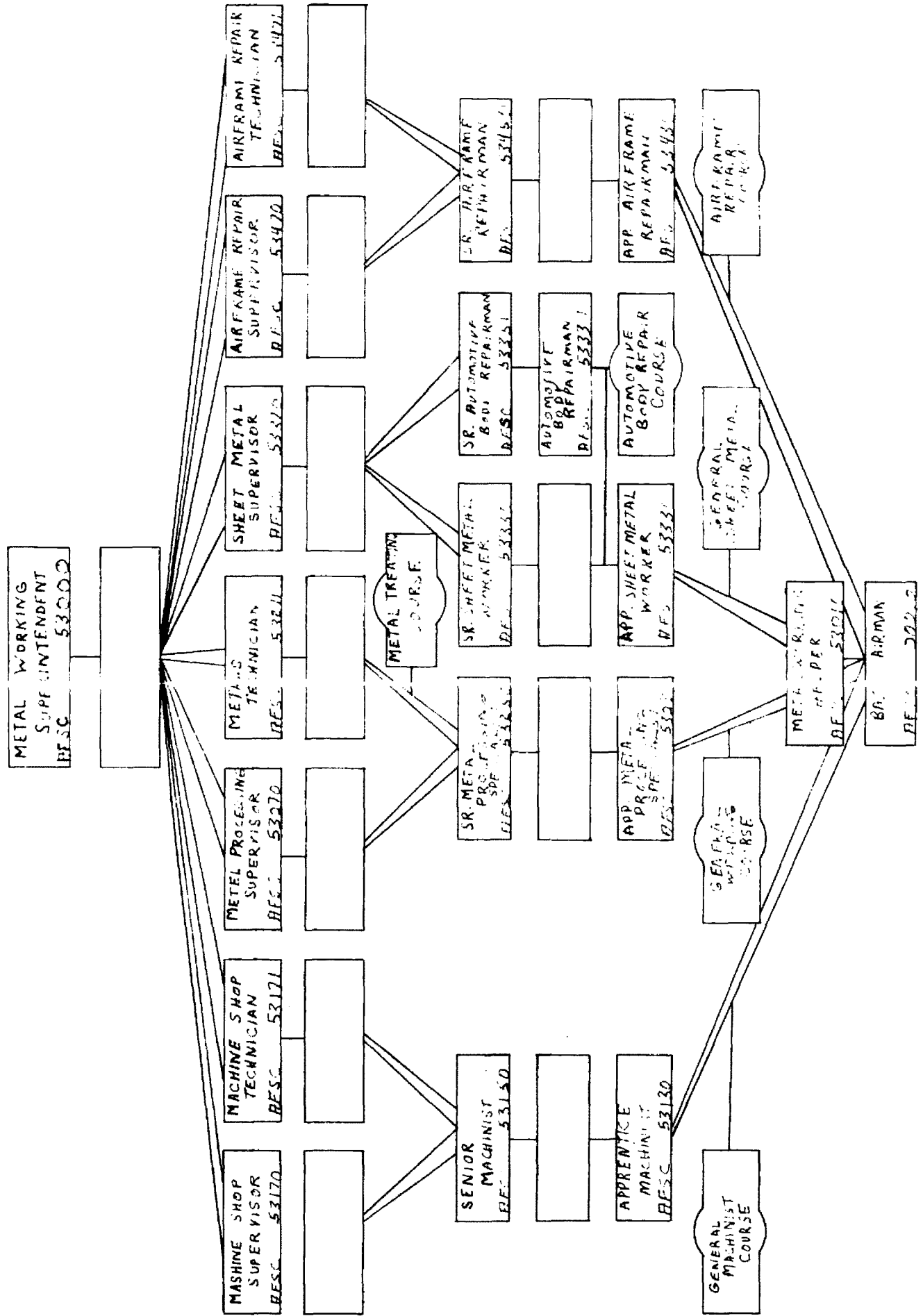
Necessary Aptitudes

Airmen Classification Test Battery  
Mechanical



# METAL WORKING CAREER FIELD

AFR 35-453



MACHINE SHOP Sub-division

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	4-75.010
Machinist, Bench	4-75.120

Desirable Civilian School Courses

Machine Shop  
Auto Mechanics  
Mechanical Drawing  
Algebra

Necessary Aptitudes

Airmen Classification Test Battery  
Craftsman

METAL PROCESSING Sub-division

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 GCT 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

SHEET METAL Sub-division

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 GCT 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

4-80.010

**Desirable Civilian School Courses**

General Shop

Mechanical Drawing

Sheet Metal

**Necessary Aptitudes**

Airman Classification Test Battery

Craftsman

SHEET METAL Sub-division

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 solder 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 GCT 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	5-81.510
Sheet Metal Worker II	4-80.010
Glazier II	5-77.010
Welder, Acetylene	4-85.030

**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 part 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 GCT 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	4-80.010
Airplane Rigger (aircraft mfg.)	5-80.500

**Desirable Civilian School Courses**

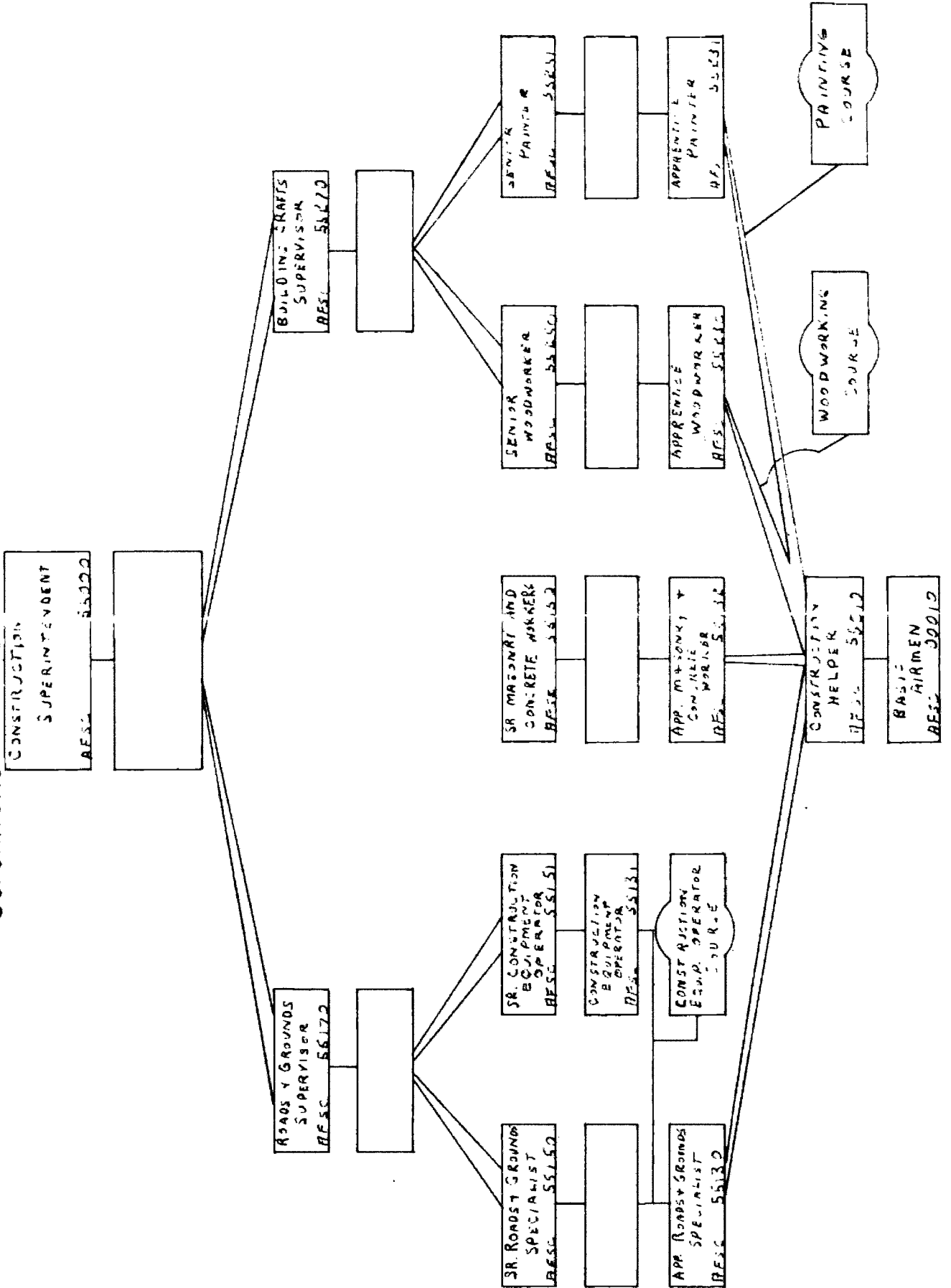
General Shop  
Sheet Metal  
Machine Shop  
Mechanical Drawing

**Necessary Aptitudes**

Airmen Classification Test Battery  
Craftsman

# CONSTRUCTION CAREER FIELD

AFR 35-455



ROADS AND GROUNDS Sub-division

Senior Roads and Grounds Specialist (55150)

**Job Description**

Maintains and repairs roads, runways, railroad trackage, and grounds. Inspects road and runway drainage systems removing hazards to water runoff and repairing cracked or damaged culverts and drains. Inspects, maintains, and repairs railroad beds and tracks. Replaces rails and cross ties. Replaces track ballast by filling and tamping. Maintains grass and vegetated areas. Performs dust control treatments by mulching. Prunes trees, shrubs, and vines. Raises and moves heavy equipment, using derricks, gin poles, A-frames, cableways and chain blocks. Performs demolition work. Maintains tools and equipment. Supervises subordinate personnel.

**Job Requirements**

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

Calls for a GCT 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**

Blaster III	5-74.010
Rigging Man III	5-28.020
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



ROADS AND GROUNDS Sub-division

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 GCT 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

Erects, maintains, and repairs masonry and concrete structures. Prepares mortar. Delivers mortar to points of use. Lays brick, building block, stone, and other materials, to form structures. Water-proofs and dampproofs walls. Forms structures of poured concrete. Pours concrete into forms. Finishes concrete surfaces, using float, straightedge, template, trowel or other devices. Plasters interior and exterior of buildings. Finishes and floats surfaces to obtain finish, free from blemishes and float marks. Repairs cracks and breaks in plastered surfaces. Maintains equipment and tools. Supervises subordinate workers.

Job Requirements

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

Calls for a GCT score of 90 minimum or equivalent.

Demands 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

BUILDING CRAFTS Sub-division

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

BUILDING CRAFTS Sub-division

Senior Painter (55251)

Job Description

Paints buildings and structures, aircraft, vehicles, equipment and traffic markings. Mixes and blends paints. Prepares surfaces for painting. Applies primer and finish coats of paint to prepared exterior surfaces of wooden, metal, or concrete structures. Paints aircraft, vehicles and equipment. Applies lettering and identifying insignia, using enamel, filler, lacquer, primer and shielding compound. Paints traffic markings for roads, curbs, and airplane runways. Erects scaffolding. Supervises subordinate painters.

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

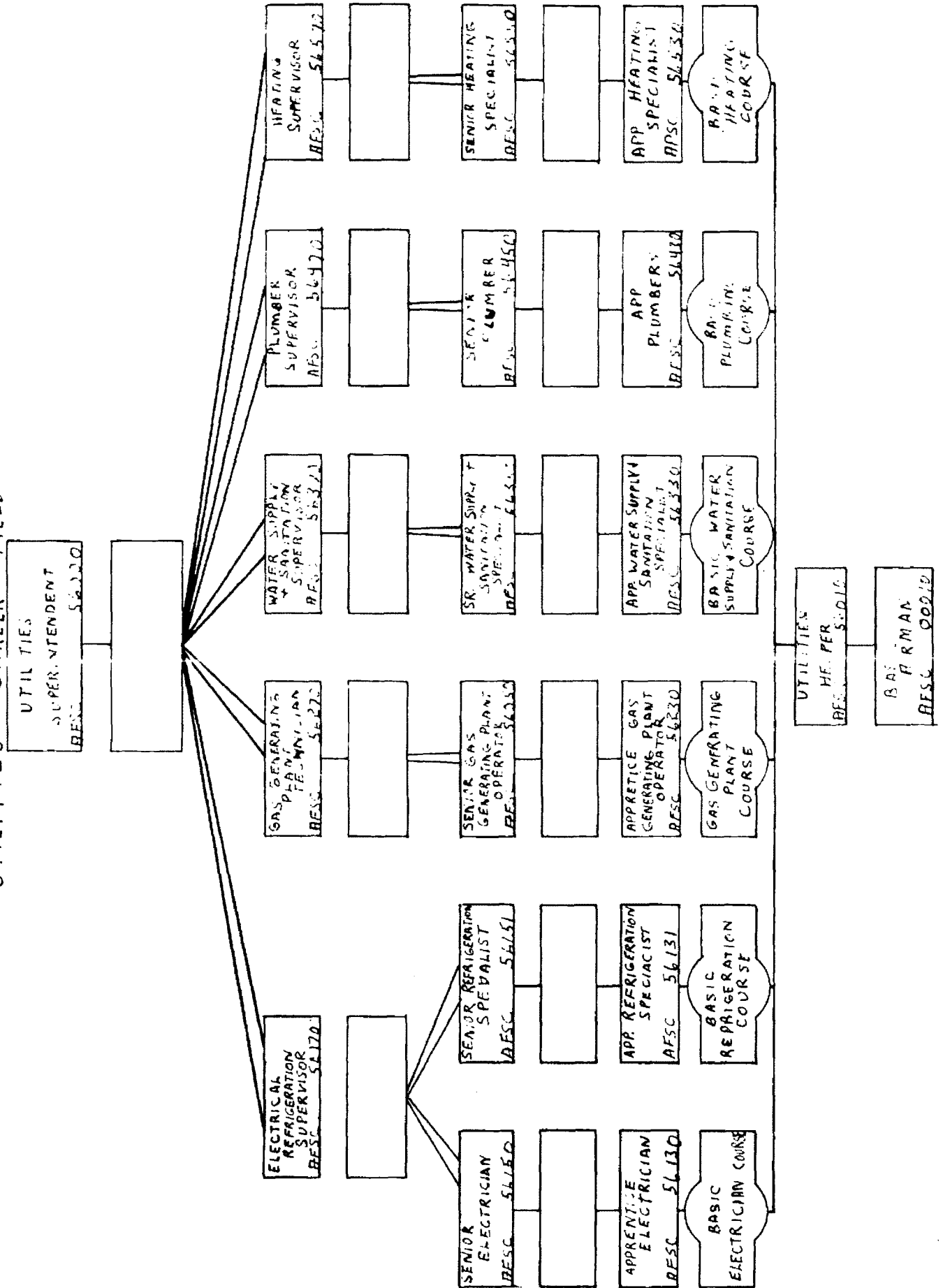
General Shop  
Woodworking

Necessary Aptitudes

Airmen Classification Test Battery  
Craftsman  
Equipment Operator

# UTILITIES CAREER FIELD

AFR 35 456



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 GCT 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

ELECTRICAL AND REFRIGERATION Sub-division

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 GCT 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	5-83.941
Electric Refrigerator Serviceman	5-83.031

**Desirable Civilian School Courses**

Physics  
Electricity  
General Shop

**Necessary Aptitudes**

Airmen 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 GCT 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 CCT 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	7-54.621
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 GCT 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 GCT score of 90 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

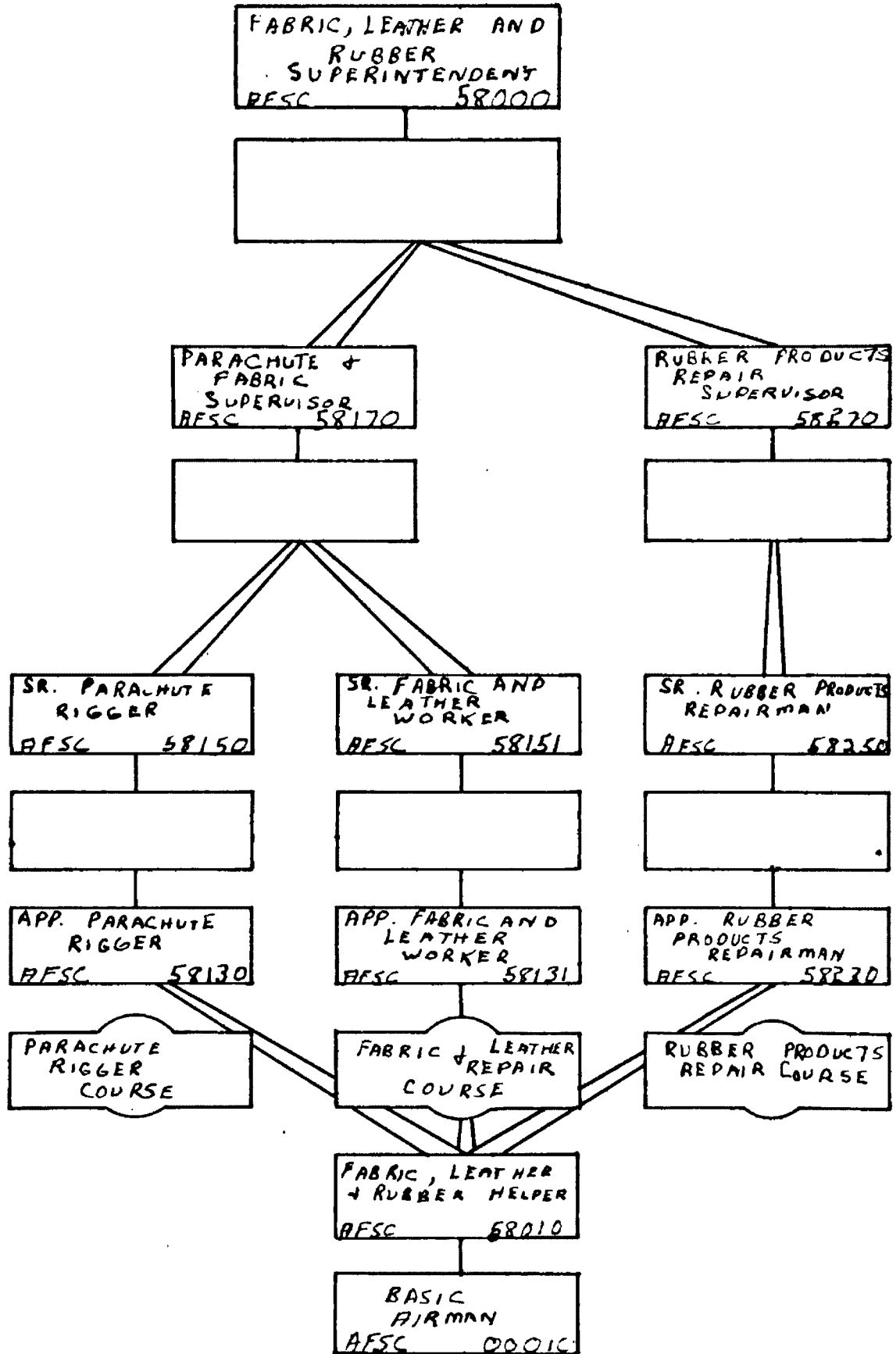
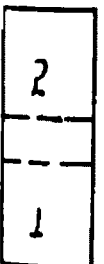
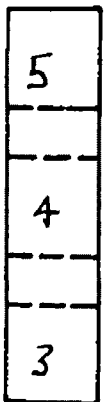
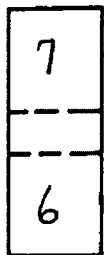
**Necessary Aptitudes**

Airmen Classification Test Battery  
Craftsman  
Equipment Operator

FABRIC, LEATHER AND RUBBER CAREER FIELD

AFSC 35-459

PAY GRADE



PARACHUTE AND FAERIC Sub-division

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 GCT 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	6-27.140
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

PARACHUTE AND FABRIC Sub-division

Senior Fabric and Leather Worker (58151)

**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 GCT 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

RUBBER PRODUCTS REPAIR Sub-division

Senior Rubber Products Repairman (58250)

**Job Description**

Repairs rubber and rubberized equipment and retreads tires. Visually inspects rubber articles for tears, abrasions, ruptures, swollen areas, and injury to connections and valve stems. Repairs tires, inner tubes, de-icer boots, fuel cells, life rafts, and life vests. Vulcanizes by placing on steam or electrically heated table for specified time. Retreads tires. Applies camelback manually or by stitcher. Makes splice, and places tire on curing rim. Supervises subordinate rubber products repairmen.

**Job Requirements**

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

Requires a GCT 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 Moulder	7-89.423
Tire Builder	7-89.421
Self-Sealing Fuel-tank Repairman	6-57.915

**Desirable Civilian School Courses**

Auto Mechanics  
Mechanical Drawing

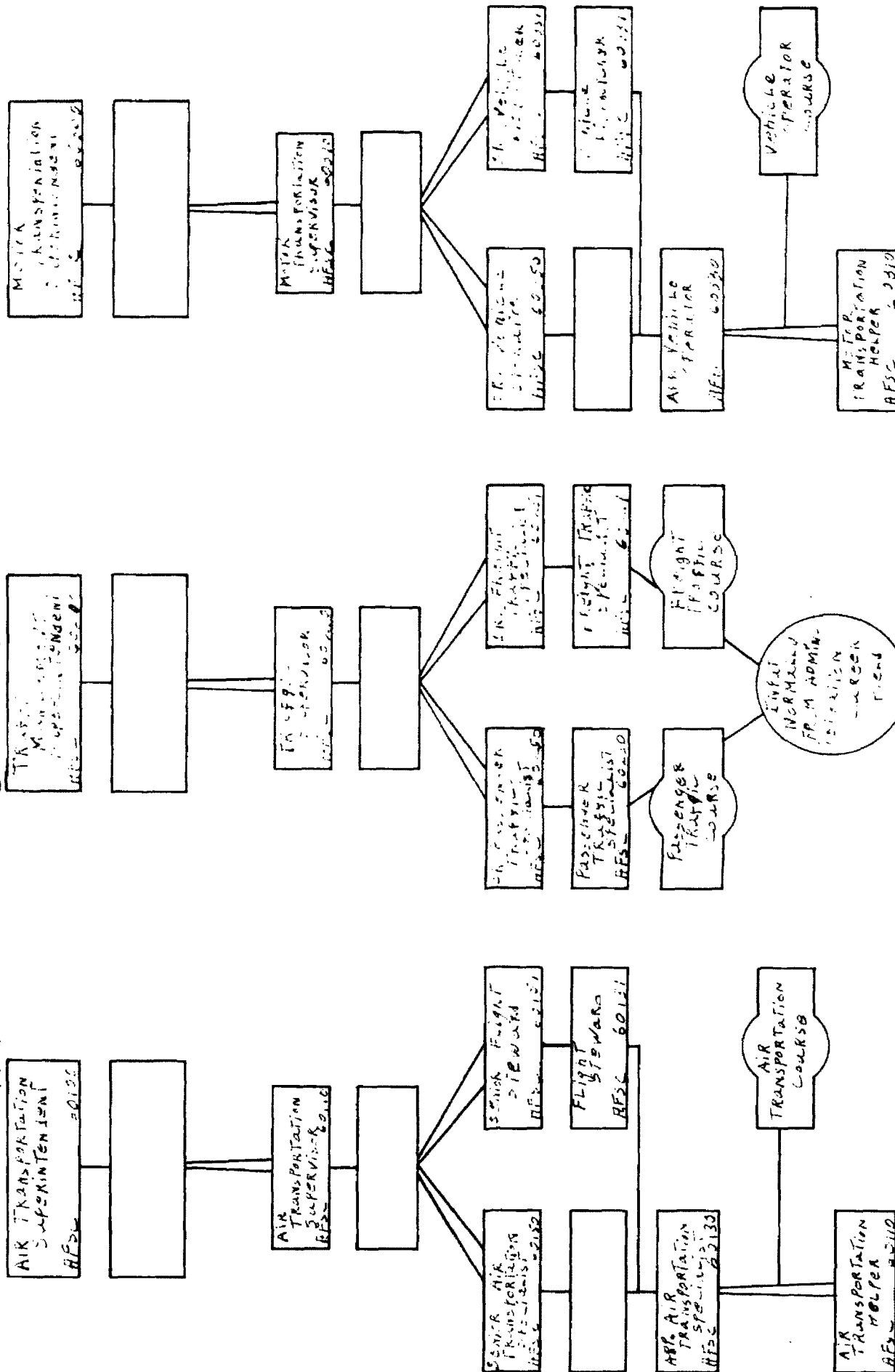
**Necessary Aptitudes**

Airmen Classification Test Battery  
Craftsman

TRANSPORTATION

Cancer Field

AFR-35-46





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	1-87.51

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 GCT 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	2-28.01
Airplane hostess	2-25.37

**Desirable Civilian School Courses**

Home Economics  
Sociology

**Necessary Aptitudes**

Airmen Classification Test Battery  
Clerical  
Equipment Operator

TRAFFIC MANAGEMENT Sub-division

Senior Passenger Traffic Specialist (60250)

**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

1-44.12

**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 GCT 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	1-34.13
Traffic Rate Clerk	1-18.97

**Desirable Civilian School Courses**

Typing  
Business Machines

**Necessary Aptitudes**

Airmen Classification Test Battery  
Clerical  
Equipment Operator

MOTOR TRANSPORTATION Sub-division

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 semi-trailers, 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

Bus Driver	5-36.010
Chauffeur II	7-36.010
Taxi Driver	7-36.040
Dump Truck Driver	7-36.220
Trailer Truck Driver	7-36.240

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 GCT 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

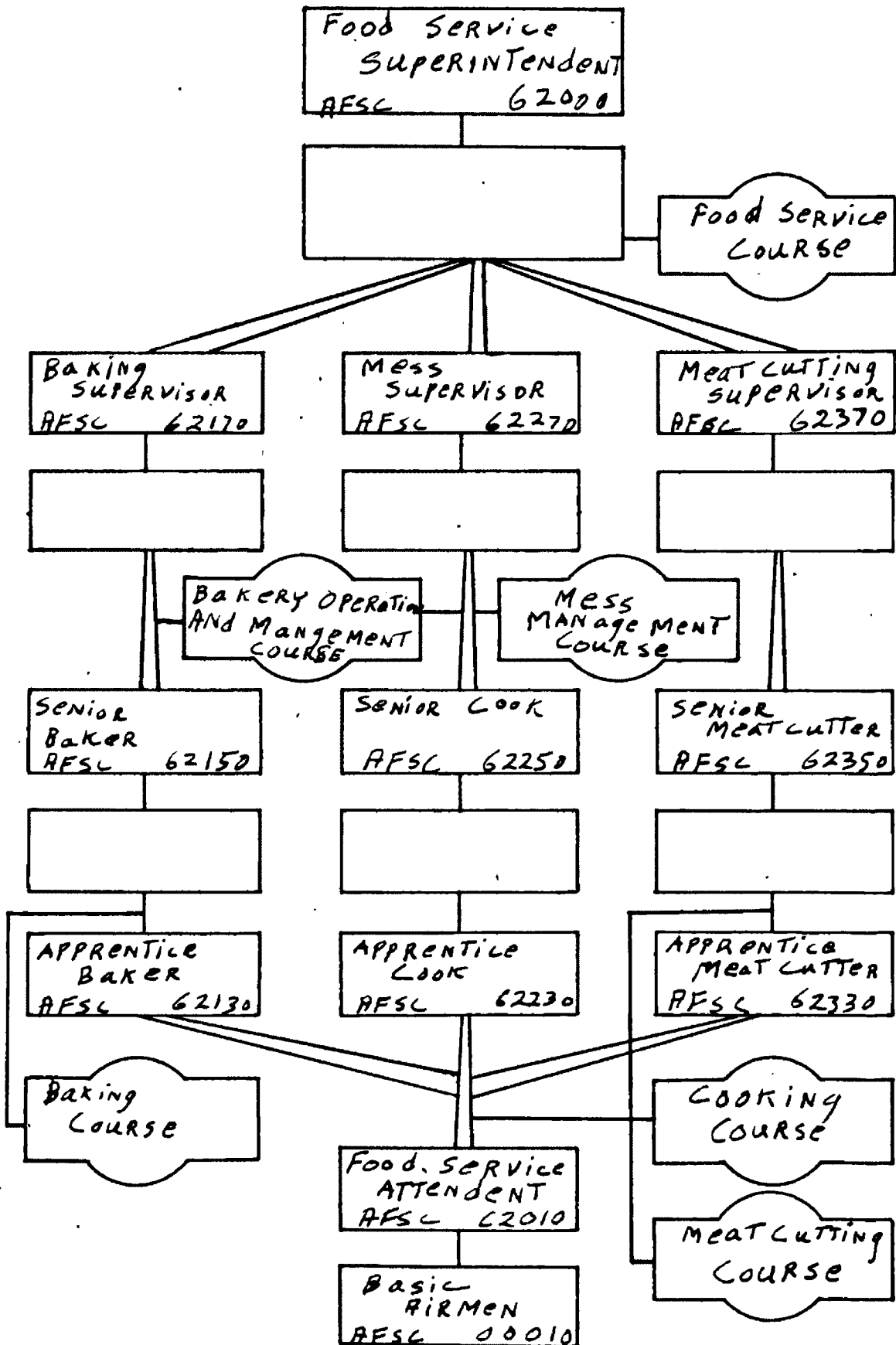
# FOOD SERVICE Career Field

Pay Grade  
CWO  
WO

7  
6

5  
4  
3

2  
1



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, organizational, 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 GCT 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

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 GCT 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	4-09.205
Butcher, All Around	4-09.205
Meat Dresser	4-09.208
Butcher, Fish	7-58.200
Butcher, Chicken	7-58.100

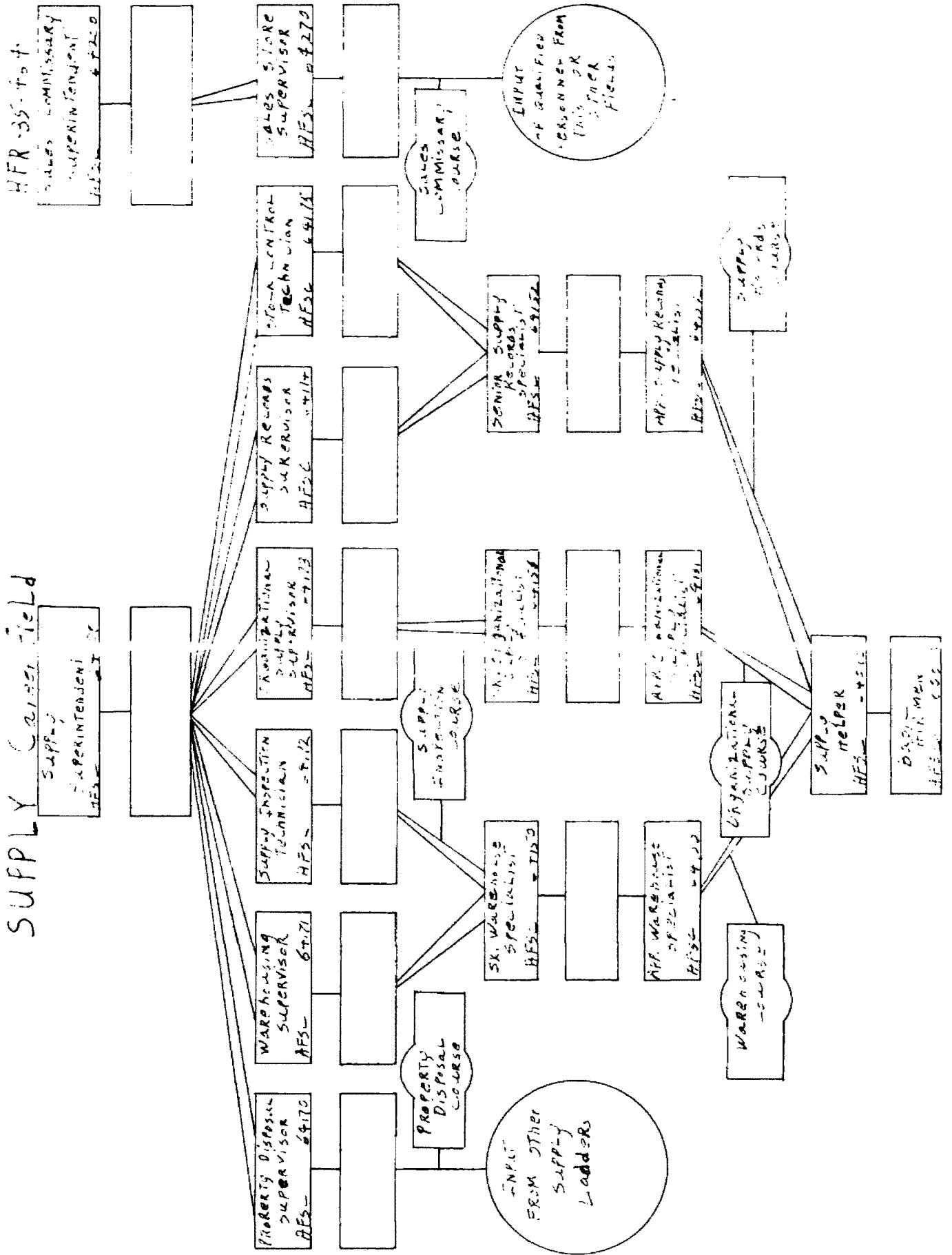
Desirable Civilian School Courses

Home Economics  
Vocational Agriculture

Necessary Aptitudes

Airmen Classification Test Battery  
Services

# SUPPLY Career Field



SUPPLY Sub-division

Senior Warehousing Specialist (64150)

**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	1-01.41
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

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**

Prepares and maintains stock records and related supply documents. Prepares stock records utilizing data such as stock numbers, description of items, units of issue, and issue codes contained in supply cataloging publications. Controls property documents. Prepares and maintains authorization files. Prepares and maintains records of property issued on memorandum receipt. Edits documents reflecting turn in of property to verify existence of memorandum receipt charge. Prepares and maintains records of property requisition. Prepares transfer and adjustment documents. Prepares cost accounting and financial reports. Prepares stock status and inventory reports. Supervises subordinate personnel.

**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 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	1-01.42
Posting Clerk	1-01.43
File Clerk	1-17.01
Statistical Clerk	1-36.01
Clerk-Typist	1-37.34

**Desirable Civilian School Courses**

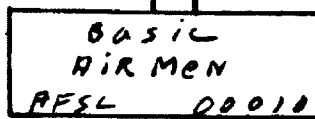
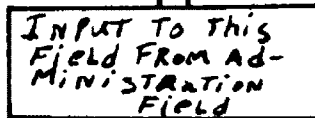
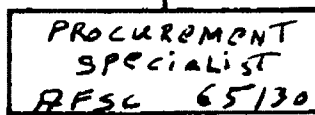
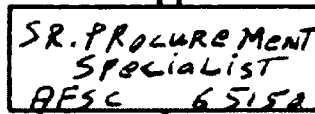
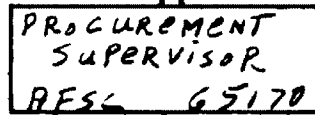
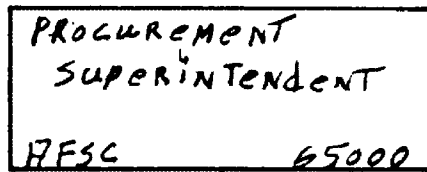
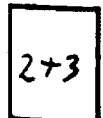
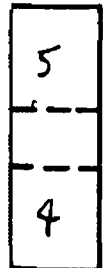
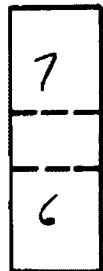
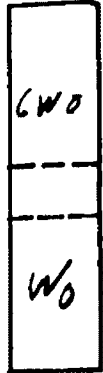
Typing  
Bookkeeping  
General Math

**Necessary Aptitudes**

Airmen Classification Test Battery  
Clerical

# PROCUREMENT Career Field AFR-35-465

Pay  
Grade



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. Analyzes 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



# ADMINISTRATIVE Career Field AFR-35-470

Pay Grade

NO

ADMINISTRATIVE SUPERINTENDENT  
AFSC 70200

ADVANCED ADMINISTRATIVE COURSE

7

POSTAL TECHNICIAN  
AFSC 70170

ADMINISTRATIVE SUPERVISOR  
AFSC 70270

STENOGRAPHIC TECHNICIAN  
AFSC 70270

6

[Empty Box]

[Empty Box]

[Empty Box]

5

POSTAL SPECIALIST  
AFSC 70130

SENIOR CLERK  
AFSC 70250

SENIOR STENOGRAPHER  
AFSC 70250

4

POSTAL COURSE

[Empty Box]

STENOGRAPHER  
AFSC 70230

3

APPRENTICE CLERK  
AFSC 70230

STENOGRAPHIC COURSE

2

CLERK HELPER  
AFSC 70010

BASIC CLERICAL COURSE

1

BASIC AIRMEN  
AFSC 00010

ADMINISTRATIVE Sub-division

Senior 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 GCT 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	1-37.14
Transcribing-Machine Operator	1-37.36

**Desirable Civilian School Courses**

Typing  
Shorthand  
Business Machines  
Bookkeeping

**Necessary Aptitudes**

Airman 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

REF-55-71

-167-

# PRINTING Career Field

PRINTING SUPERINTENDENT  
AFSC 71000

[Empty Box]

Duplicating Supervisor  
AFSC 71170

LETTERPRESS PRESS SUPERVISOR  
AFSC 71270

CITIZENSHIP REGISTRATION SUPERVISOR  
AFSC 71271

LITHOGRAPHIC PROCESS SUPERVISOR  
AFSC 71330

LITHOGRAPHIC PROCESS SUPERVISOR  
AFSC 71331

SR. Duplicating Devices Operator  
AFSC 71150

SENIOR Compositor  
AFSC 71250

SR. LETTERPRESS PRESSMAN  
AFSC 71251

SR. BINDER WORKER  
AFSC 71252

SR. LITHOGRAPHIC PRESSMAN  
AFSC 71350

SR. PHOTO ALTHOGRAPHER  
AFSC 71351

APP. Duplicating Devices Operator  
AFSC 71150

APPRENTICE COMPOSITOR  
AFSC 71250

APP. LETTERPRESS PRESSMAN  
AFSC 71251

APP. BINDER WORKER  
AFSC 71252

APP. LITHOGRAPHIC PRESSMAN  
AFSC 71350

APP. PHOTO ALTHOGRAPHER  
AFSC 71351

Duplicating Devices Course

Printing and Binding Course

PRINTING AND BINDER WORKER  
AFSC 71000

SR. BINDER WORKER  
AFSC 71000

NOTE:  
- All books within dotted line not normally filed in separate by former

DUPLICATING DEVICES Sub-division

Senior Duplicating Devices Operator (71150)

**Job Description**

Operates photocopy equipment and duplicating machines to reproduce copy materials. Operates photostat equipment, ozalid equipment, blueprint equipment, and contact printer apparatus. Finishes prints. Mixes standard chemical formulae to develop, fix, and bleach prints. Operates hand and automatic duplicating machines to reproduce copy materials. Duplicates carbon stencils on mimeograph machines. Duplicates copy on ditto machines. Operates metal embossing and automatic addressing equipment. Performs organizational maintenance and repair to duplicating equipment. Supervises duplicating devices operators.

**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	1-25.41
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

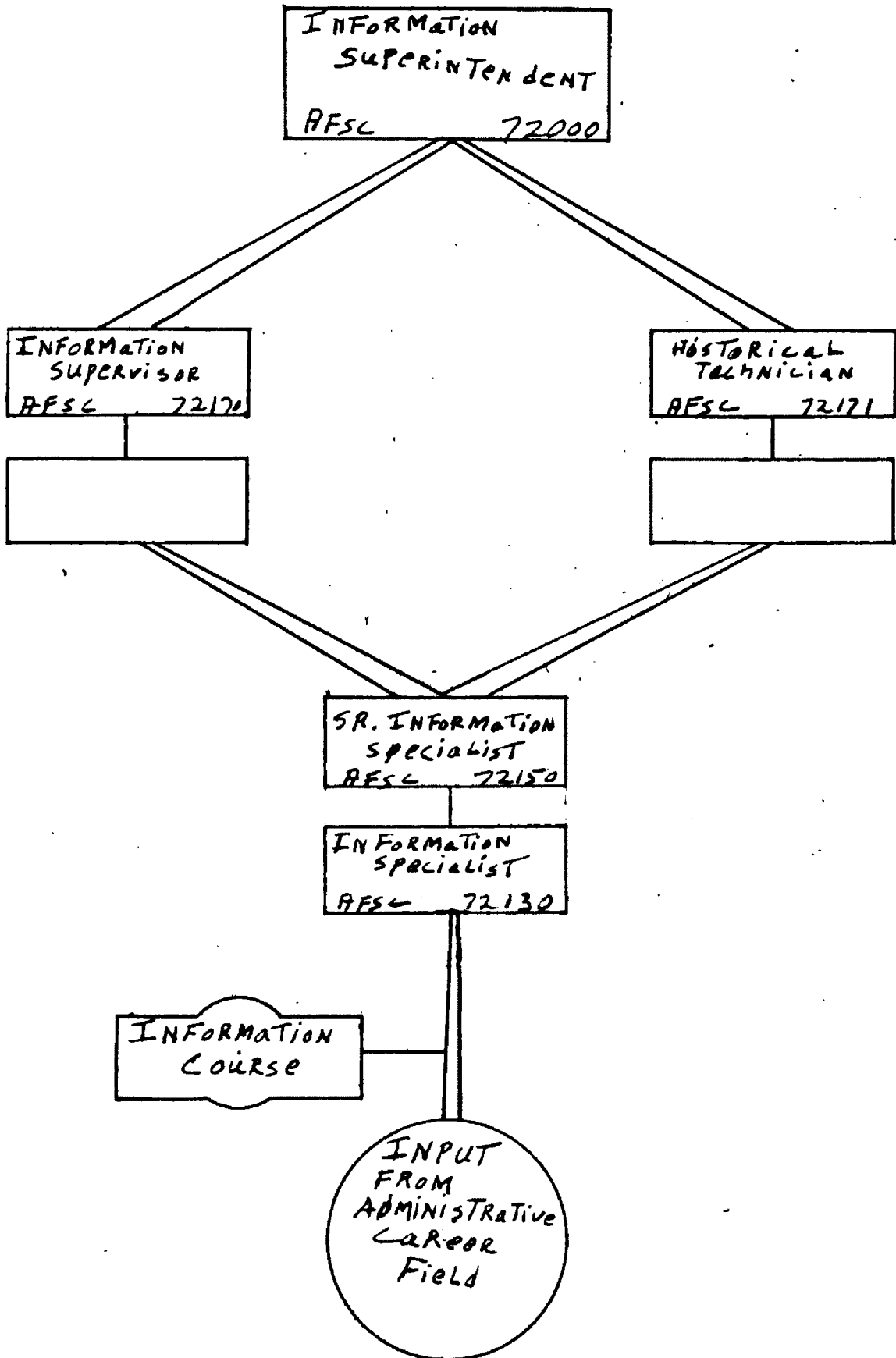
# INFORMATION Career Field AFR-35-472

Pay  
Grade

WO

7  
-----  
6

5  
-----  
4



## 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

Airman Classification Test Battery

Technical Specialty

# PERSONNEL Career Field

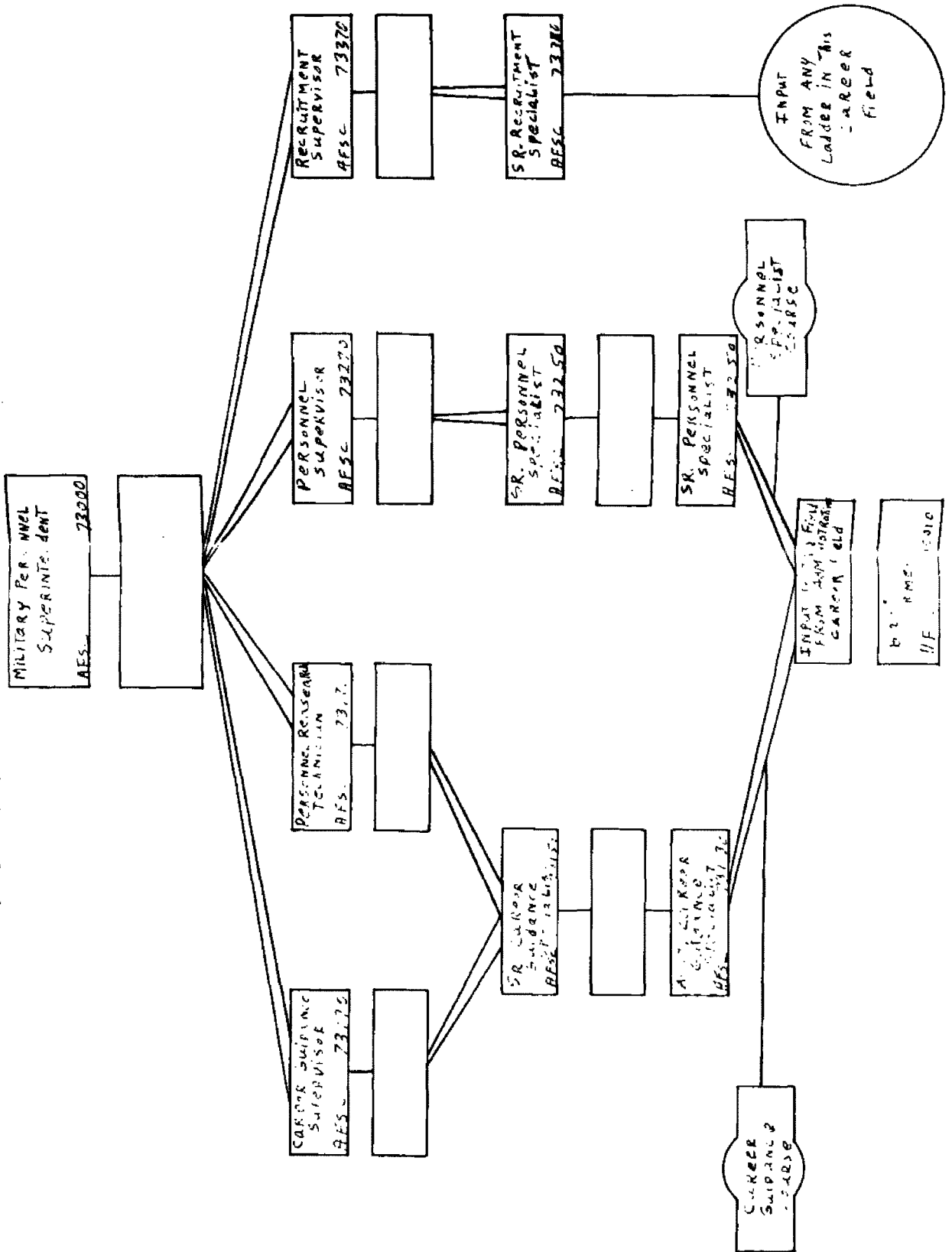
PAY GRADE

CW0
WS

7
6

5
4
3

2
1





CAREER GUIDANCE Sub-division

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**

Airman 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 GCT 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	0-27.01
Traveler's Aid Worker	0-27.04

**Desirable Civilian School Courses**

Psychology  
Sociology  
Typing

**Necessary Aptitudes**

Airmen Classification Test Battery  
Technical Specialty

RECRUITMENT Sub-division

Senior Recruitment Specialist (73350)

• Job Description

Recruits and processes personnel for enlistment in the United States Air Force. Develops favorable public relations. Establishes contacts in community and conducts forum discussions and lectures on Air Force policies. Interviews prospective personnel by examining training, experience, interests, aptitudes, and general background. Analyzes and compiles employment data. Confers with industrial and business representatives in connection with obtaining occupational data. Indoctrinates recruits. Supervises small group of Recruitment Specialists, clerks and typists.

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

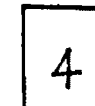
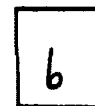
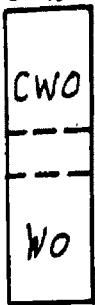
Airmen Classification Test Battery

Technical Specialty

# EDUCATION CAREER FIELD

AFR 35-473

PAY GRADE



TECHNICAL TRAINING SUPERINTENDENT  
AFSC 76100

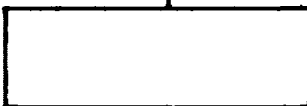
GENERAL TRAINING SUPERINTENDENT  
AFSC 75200



TECHNICAL TRAINING SUPERVISOR  
AFSC 75170

TECHNICAL TRAINING TECHNICIAN  
AFSC 75171

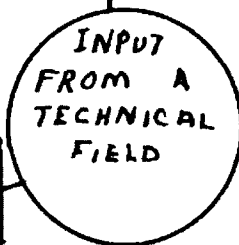
GENERAL TRAINING SUPERVISOR  
AFSC 75270



TECHNICAL TRAINING TECHNICIAN  
AFSC 75131

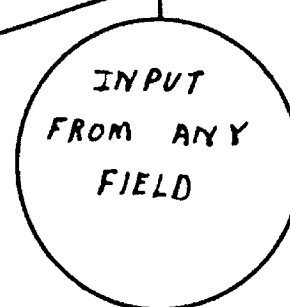
SR. GENERAL INSTRUCTOR  
AFSC 75250

INSTRUCTOR COURSE



GENERAL INSTRUCTOR  
AFSC 75230

INSTRUCTOR COURSE



TECHNICAL TRAINING Sub-division

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

GENERAL TRAINING Sub-division

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 GUT 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

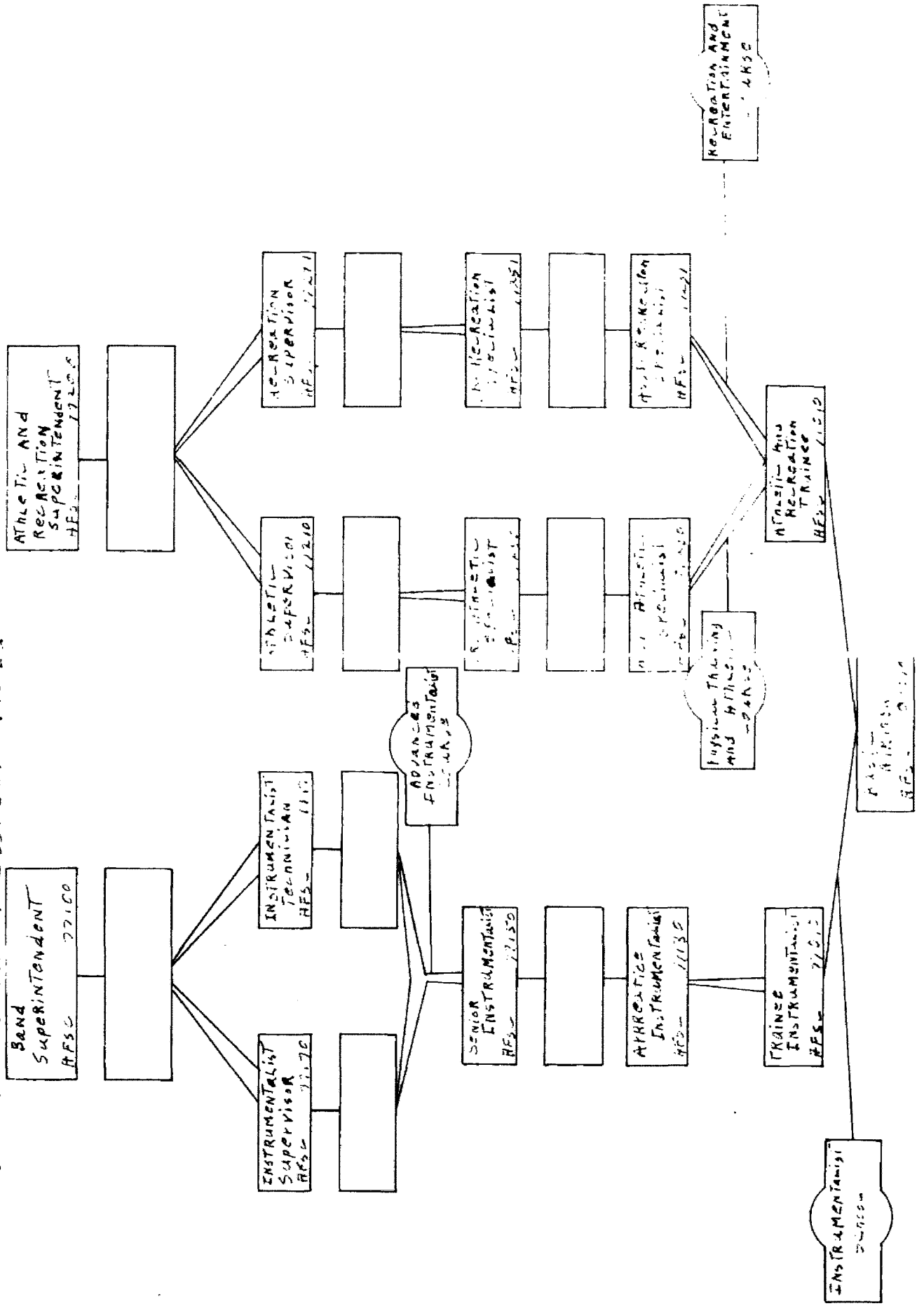
**Desirable Civilian School Courses**

Teacher Preparatory courses

**Necessary Aptitudes**

Airmen Classification Test Battery  
Technical Specialty

# ENTERTAINMENT Career Field



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	O-24.07
Musician, Instrumental	O-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	0-57.41
Instructor, Physical	0-57.41

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 GCT 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

0-27.05

**Desirable Civilian School Courses**

Music

Dramatics

Public Speaking

**Necessary Aptitudes**

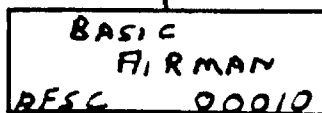
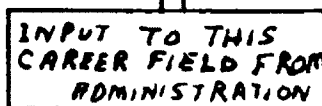
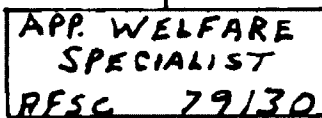
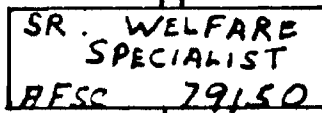
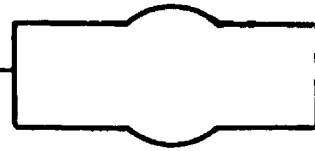
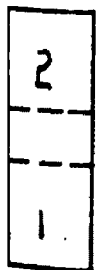
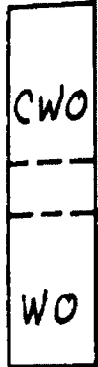
Airmen Classification Test Battery

Technical Specialty

CAPLAIN  
Career Field

AFR-35-479

PAY  
GRADE



CHAPLAIN Career Field

Senior Welfare Specialist (79150)

Job Description

Performs duties incident to the conduct of religious services, education and ceremonies. Arranges chapel appointments, religious articles and vestments for devotional services. Plays organ or piano. Renders vocal solos, directs choir, conducts choir practice, wedding and chapel program rehearsals. Arranges floral pieces for chapel services. Performs receptionist functions. Maintains liaison with hospital and guard house and notifies Chaplain of need for service. Maintains records and prepares report. Prepares wedding, baptism and christening certificates for signature of Chaplain and witnesses. Supervises subordinate welfare specialists and volunteer workers.

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	0-24.12
Teacher, Bible School	0-31.01
Receptionist II	1-18.43
Group Worker	0-27.40

Desirable Civilian School Courses

Music  
Sociology

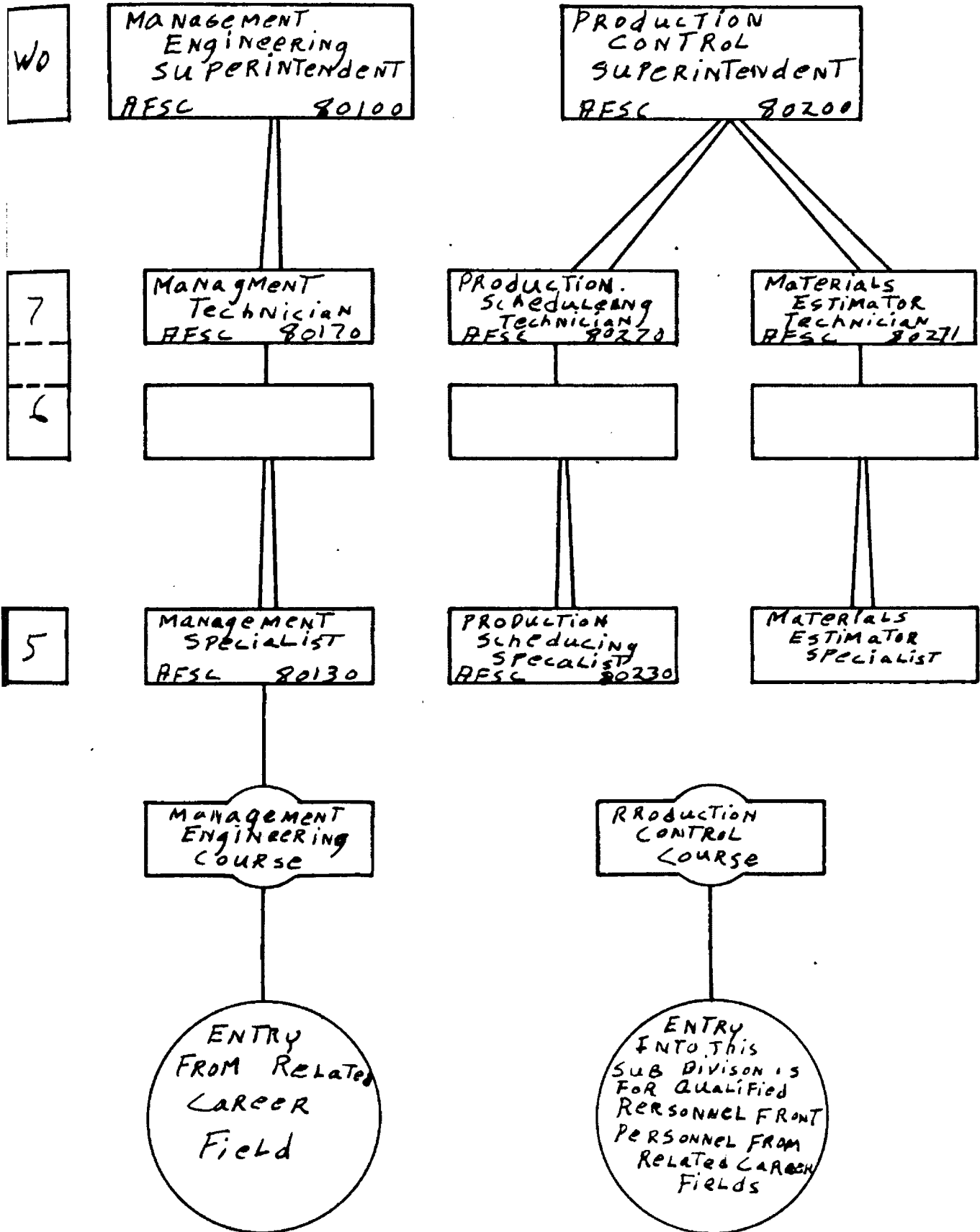
Necessary Aptitudes

Airmen Classification Test Battery  
Technical Specialties

Pay  
Grade

# MANAGEMENT METHODS Career Field

AFR-35-480



ENGINEERING MANAGEMENT Sub-division

Management Technician (80170)

**Job Description**

Performs routine analysis of organization structure, manning authorizations, utilizations of personnel, methods, procedure, training, and morale. Trains supervisory personnel in management. Analyzes organization structures and assignment of functions. Analyzes methods, procedures, layout, and equipment used. Charts movement of personnel, material, and forms in terms of operation, transportations, inspections and storages. Makes flow process, procedural, and layout charts. Advises operating personnel. Conducts management training of supervisory personnel. Prepares case data. Serves on special committees.

**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 GCT 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

O-18.01

**Desirable Civilian School Courses**

Economics

General Business

**Necessary Aptitudes**

Airmen Classification Test Battery

Clerical

Technical Specialty

PRODUCTION CONTROL Sub-division

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 GCT 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 1-18.66

**Desirable Civilian School Courses**

General Business  
Economics

**Necessary Aptitudes**

Airmen Classification Test Battery  
Clerical  
Technical Specialty

PRODUCTION CONTROL Sub-division

Materials Estimator Technician (80271)

**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, reparable parts and manufactured items. Conducts research pertinent to cost 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**

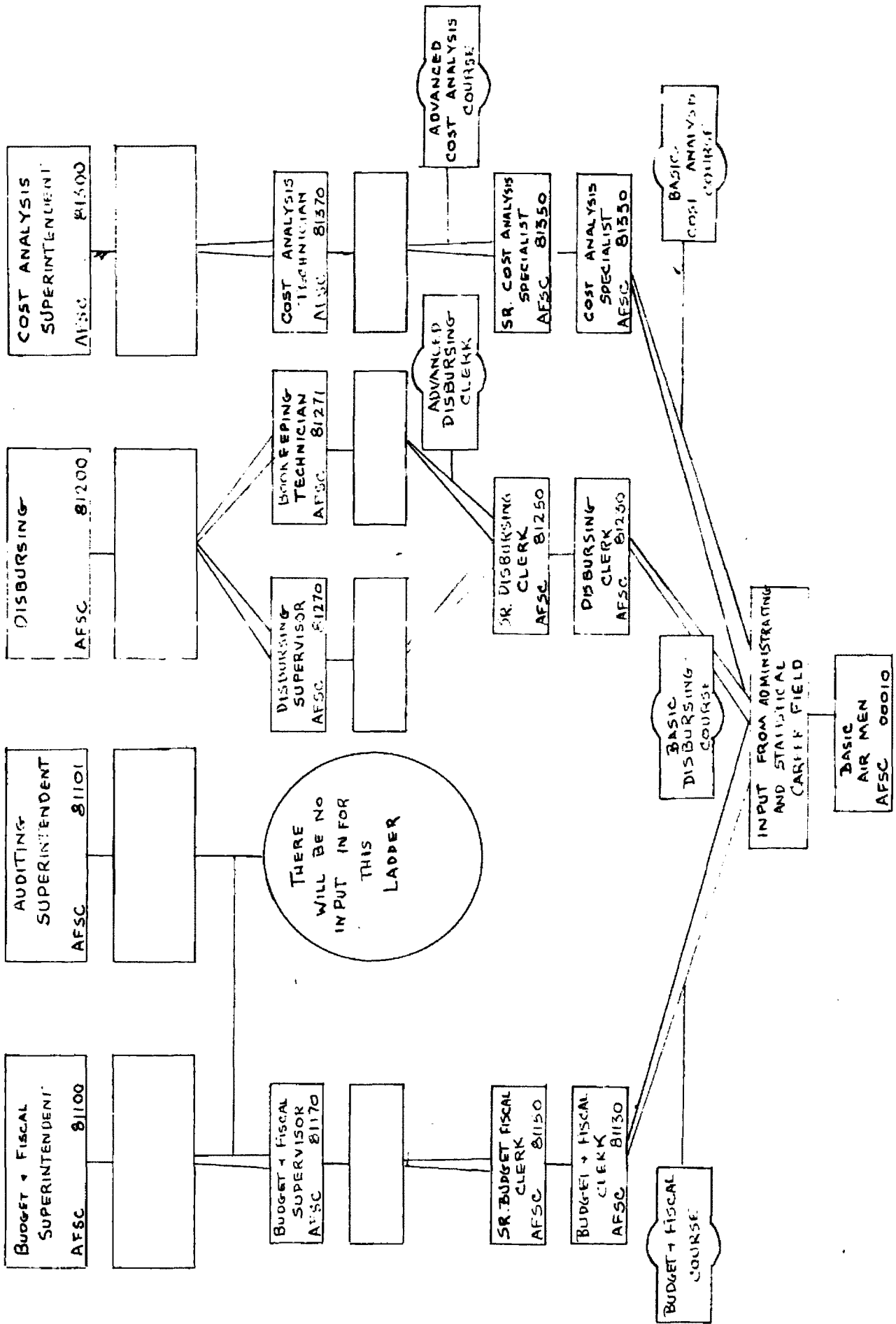
Mechanical Drawing  
Cost Accounting  
Shop Mathematics

**Necessary Aptitudes**

Airmen Classification Test Battery  
Clerical  
Technical Specialty



# BUDGETARY ACCOUNTING + DISBURSING CAREER FIELD



BUDGET 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

Prepares and processes vouchers and check and bond disbursements, and maintains disbursement record files. Computes, prepares, and processes vouchers, for payment. Interviews officers, checks officer's pay data card and official orders and computes pay and allowances due. Maintains officer's pay data. Prepares vouchers for nonpersonal services and supplies. Prepares checks for issue. Prepares bonds for issue. Maintains record of bond authorization. Maintains disbursement record files. Supervises disbursement clerks.

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 GCT 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

Audits cost data and compiles cost reports and studies. Maintains control system to regulate submission of cost data by preparing organizations. Disseminates regulatory materials to preparing organizations. Consolidates cost data by functional area, units, accounts, series, and subseries. Computes unit, subtotal, and total costs, averages and percentages. Compiles cost studies. Prepares study in text, tabular or chart form. Prepares preliminary analytical summaries. Maintains reference files. Supervises subordinate clerks and clerk-typists.

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 GCT 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

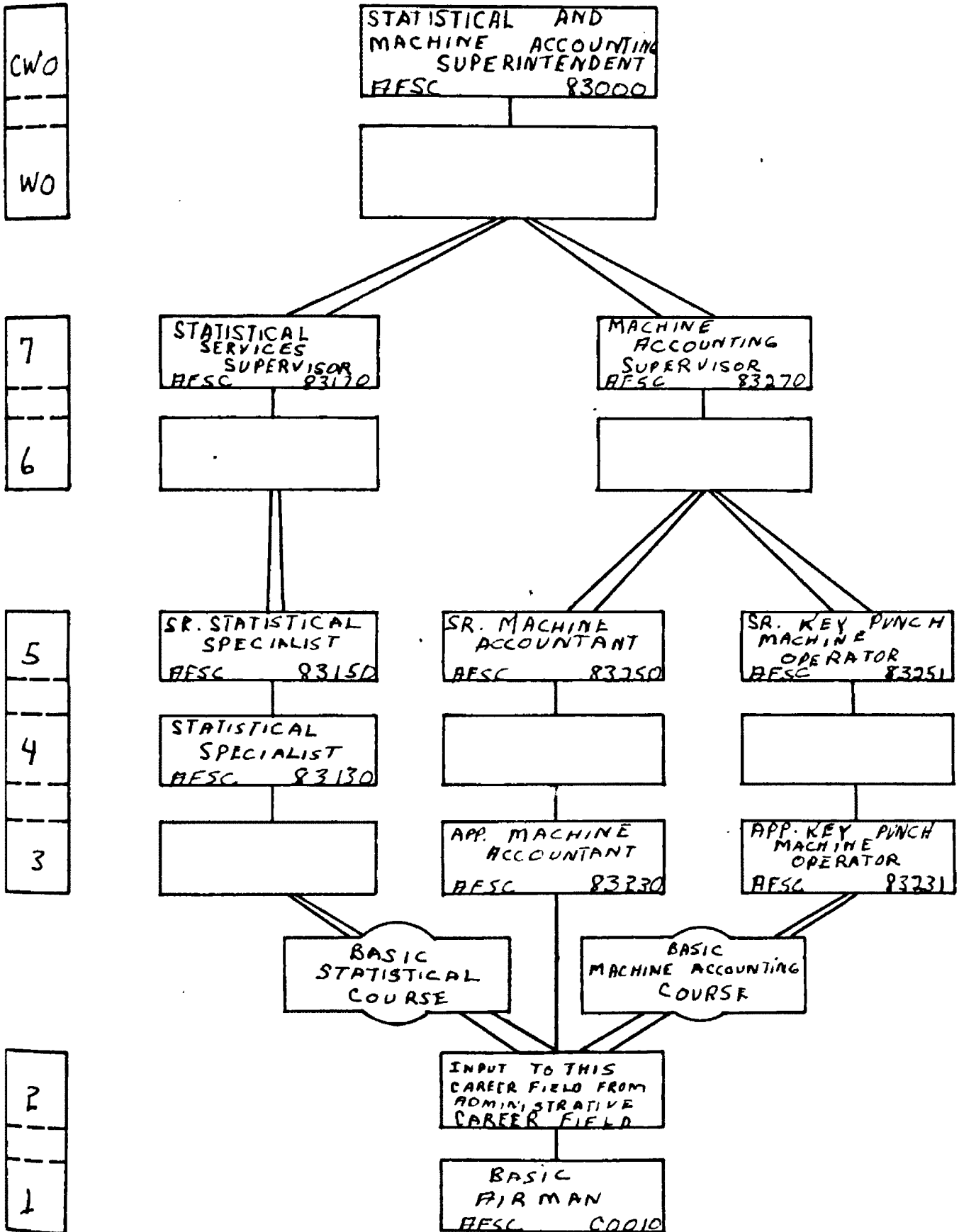
Desirable Civilian School Courses

Bookkeeping  
Typing  
General Math  
Business Machines

Necessary Aptitudes

Airmen Classification Test Battery  
Clerical

PAY GRADE STATISTICAL AND MACHINE ACCOUNTING CAREER FIELD AFR 35-413



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	0-28.30
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

MACHINE ACCOUNTING Sub-division

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 GCT 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

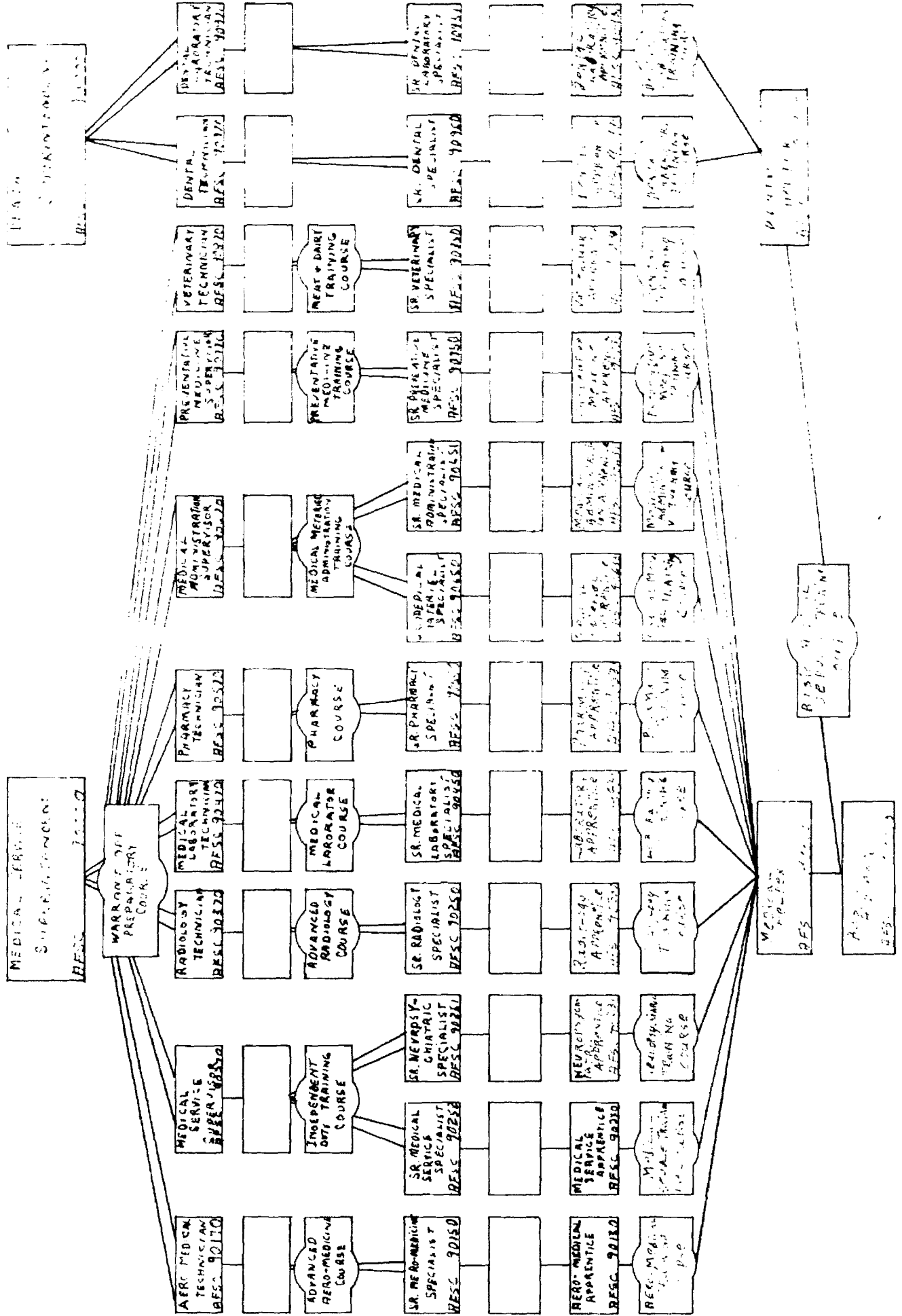
Typing  
Business Machines

Necessary Aptitudes

Airmen Classification Test Battery  
Clerical



# MEDICAL CAREER FIELD



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	0-33.36
Surgical Orderly	2-42.10

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	2-42.10
Orthopedic Technician, Surgical	5-09.410

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 electrocephalographic 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 (Male)	0-33.36
Ward Attendant I	2-42.22

**Desirable Civilian School Courses**

Psychology  
Physiology  
Chemistry  
Electricity

**Necessary Aptitudes**

Airmen Classification Test Battery  
Clerical  
Technical Specialty

RADIOLOGICAL Sub-division

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.

Demands a GCT 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	O-50.04
Electrocardiograph Operator	O-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 (90450)

**Job Description**

Performs routine laboratory inspections and analyses. Performs urinalysis, making microscopical examinations and testing for acetone or diabetic acid. Performs routine blood examinations. Collects and prepares specimens for examination. Makes simple laboratory preparations. Prepares standard solutions, stains, indicators, or other chemical solutions. Performs routine tasks. Supervises work of assistant medical laboratory specialists and medical apprentices.

**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	O-50.22
Laboratory Assistant	O-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 GCT 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	1-85.33
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

MEDICAL ADMINISTRATION Sub-division

Senior Medical Materiel 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 Materiel property to various using services. Processes salvage and disposes of excess stock in compliance with instructions. Supervises subordinate medical materiel specialists.

Job Requirements

Requires limited formal and on the job training as well as considerable experience in operating the medical materiel stock.

Demands a GCT 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

PREVENTIVE MEDICINE Sub-division

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 OCT 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	O-66.41
Sanitary Inspector	O-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

Inspects 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

Airmen Classification Test Battery  
Technical Specialty  
Clerical

DENTAL Sub-division

Senior Dental Specialist (90950)

Job Description

Performs routine subprofessional tasks in support of treatment in dental clinic. Prepares for treatment of patient. Assists dentist in treatment. Hands instruments and medications to dentist, retracts patient's mouth, keeps mouth free of excretions and sprays treated area with antiseptic solutions. Sterilizes and cares for dental equipment and instruments. Performs clerical duties. Supervises subordinate dental specialists.

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 CCT 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

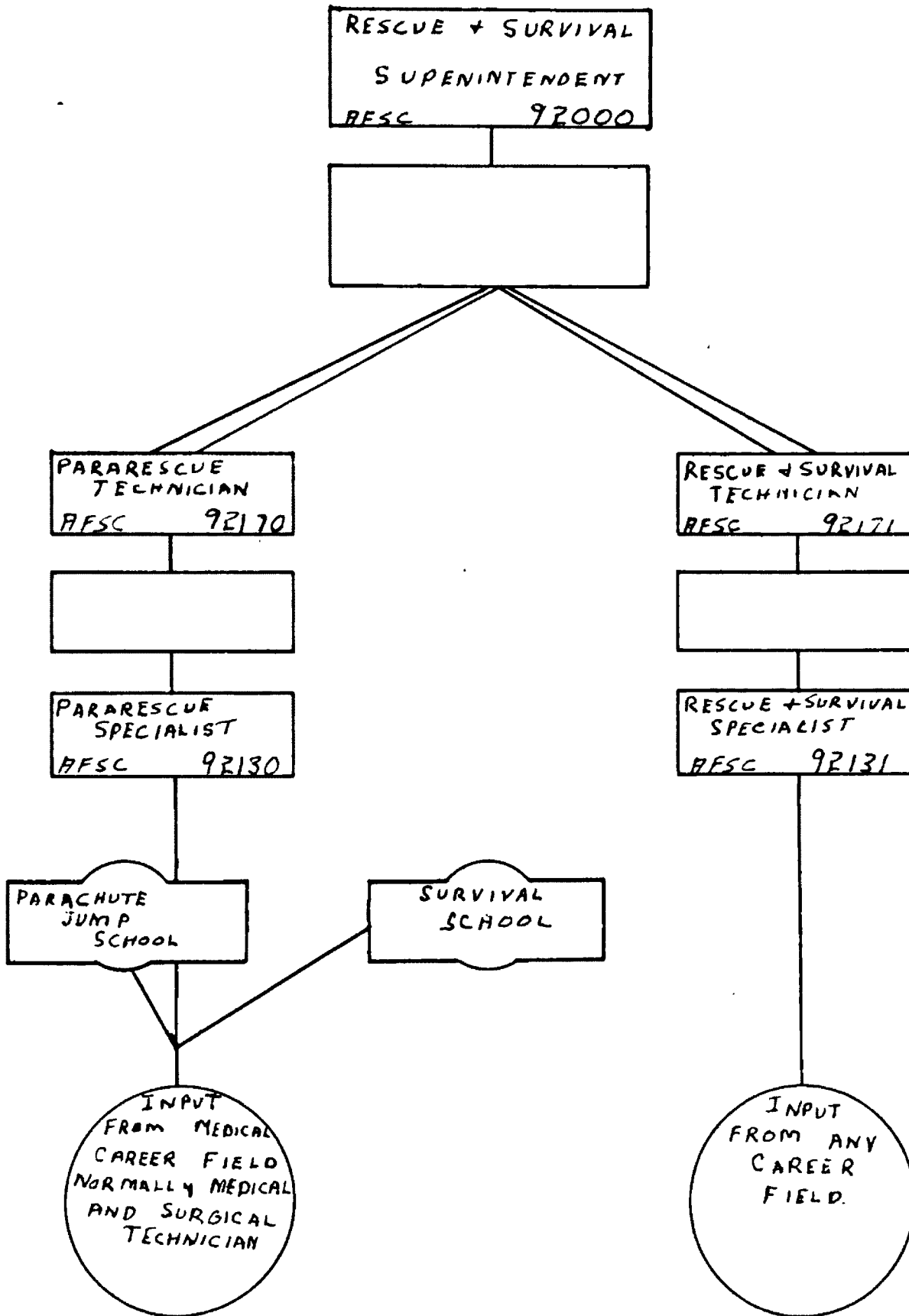
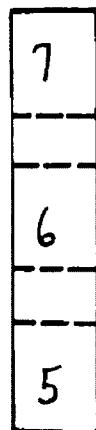
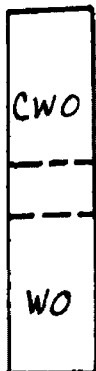
Necessary Aptitudes

Airmen Classification Test Battery  
Technical Specialty

# RESCUE AND SURVIVAL CAREER FIELD

AFR 35-492

PAY GRADE



PARARESCUE Sub-division

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 Sub-division

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 GCT 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

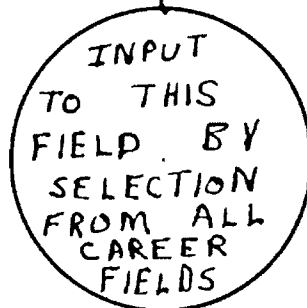
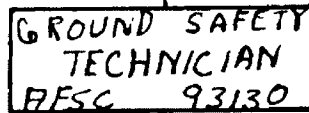
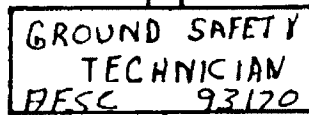
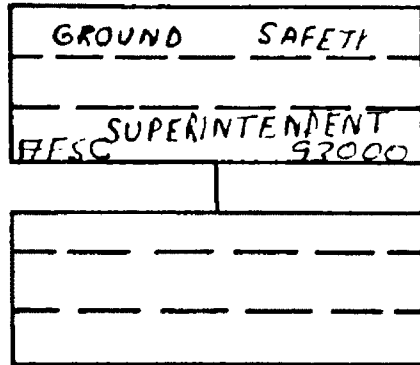
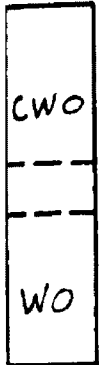
**Necessary Aptitudes**

Airmen Classification Test Battery  
Technical Specialty



GROUND SAFETY CAREER FIELD AFR 35-493

PAY GRADE



GROUND SAFETY CAREER FIELD

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 GCT 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 Man

0-18.03

Desirable Civilian School Courses

Typing

Public Speaking

Necessary Aptitudes

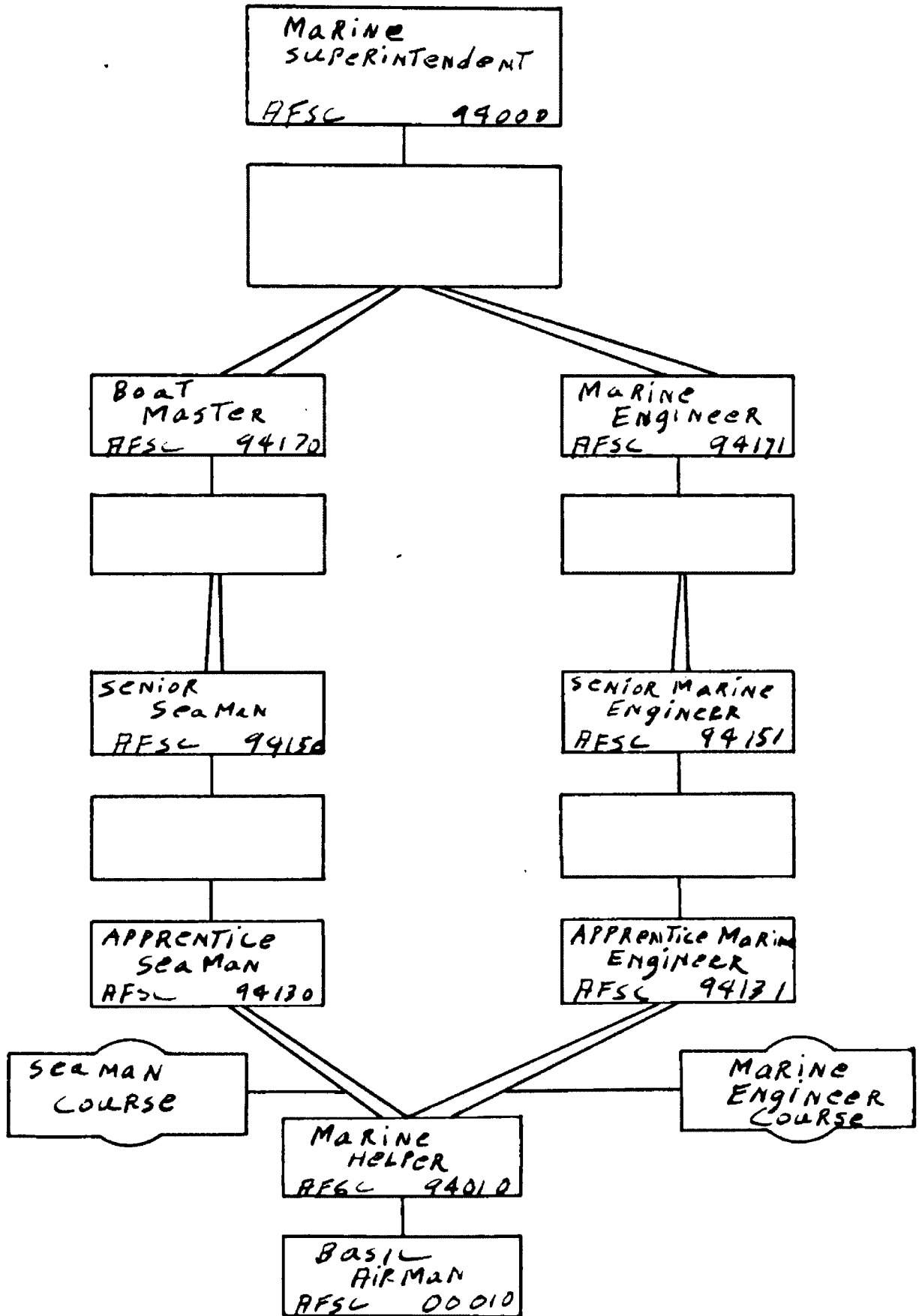
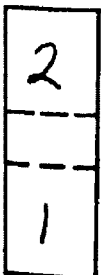
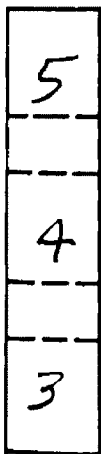
General Classification Test Battery

Technician Specialty

# MARINE Career Field

AFR-35-444

Pay Grade



SEAMAN Sub-division

Senior Seaman (94150)

Job Description

Operates and maintains boats and related marine deck equipment. Repairs deck and hull seams by caulking with cotton and oakum seam compounds using mallet, caulking tool, and putty knife. Makes minor repairs to wood constructed parts or sections. Paints, polishes, cleans and polishes decks, fixtures and compartments. Maintains shallow water diving gear, crash tools, and deck gear. Operates boat and deck equipment. Handles and adjusts lines, ropes, hawsers, and fenders when docking or getting boat underway. Steers boat according to compass course, navigation charts and rules of the road. Effects sea rescue from crashed aircraft and ships in distress. Performs shallow water diving operations. Supervises subordinate seamen and helpers.

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	7-48.020
Mate III	0-88.03

Desirable Civilian School Courses

General Math  
Woodworking  
Geometry

Necessary Aptitudes

Airmen Classification Test Battery  
Equipment Operator  
Mechanical

MARINE ENGINEER Sub-division

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**

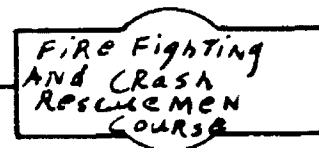
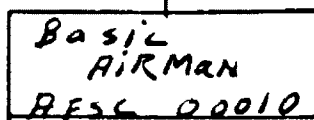
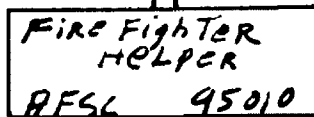
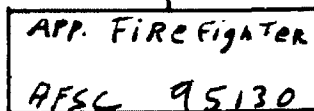
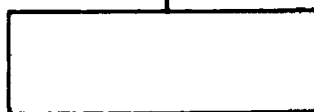
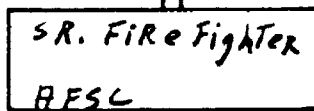
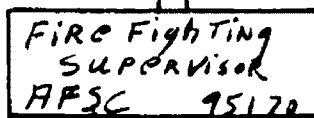
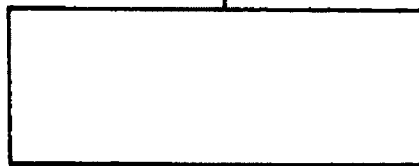
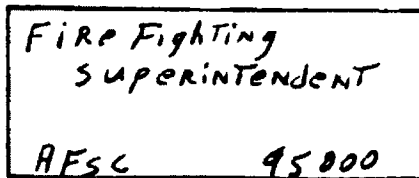
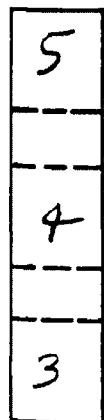
Auto Mechanics  
General Math  
Machine Shop

**Necessary Aptitudes**

Airmen Classification Test Battery  
Equipment Operator  
Mechanical

# FIRE FIGHTING Career Field AFR-35 445

Pay  
Grade



FIREFIGHTER CAREER FIELD

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	7-83.985

Desirable Civilian School Courses

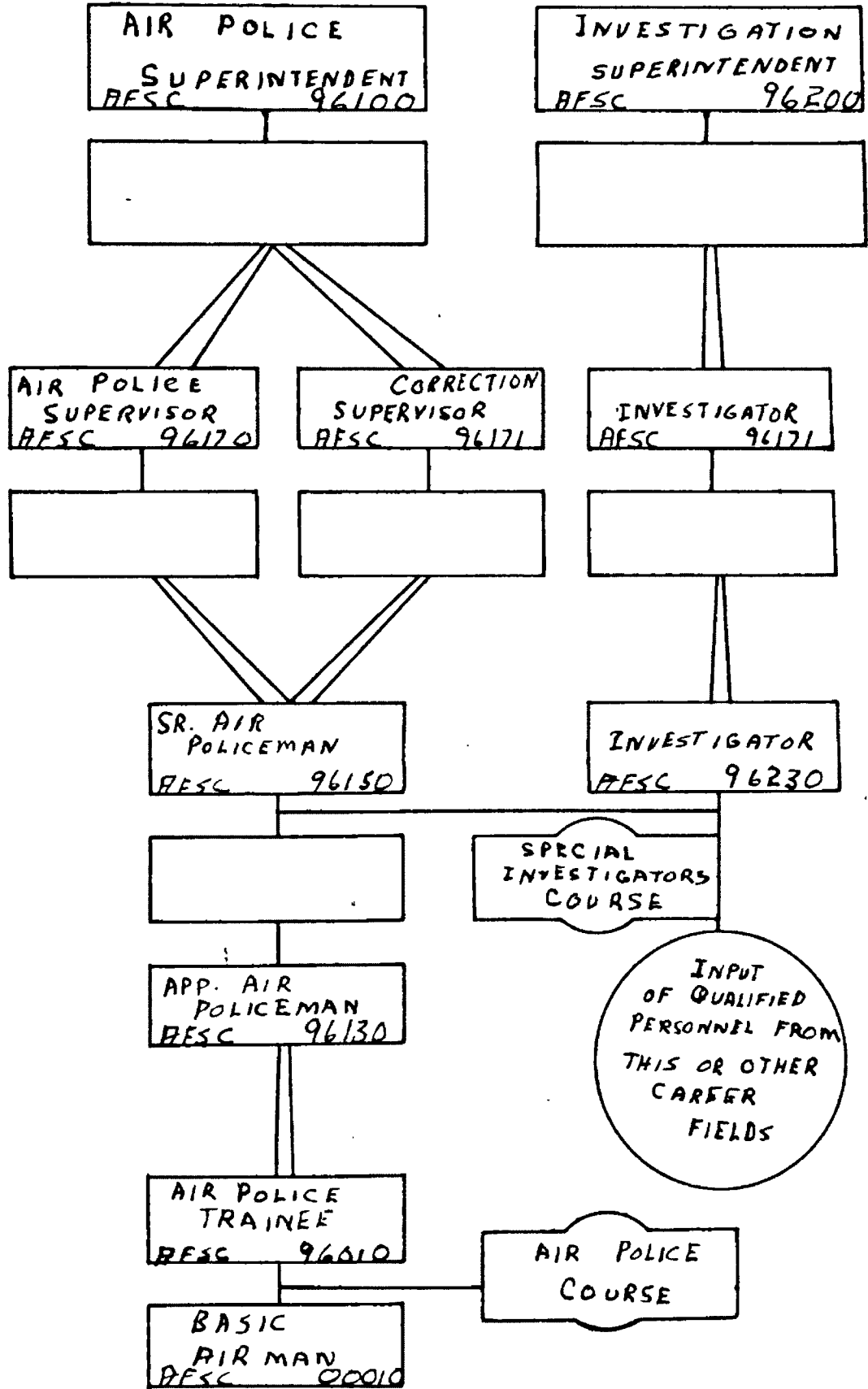
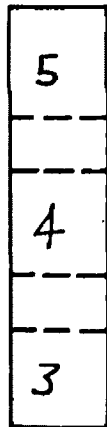
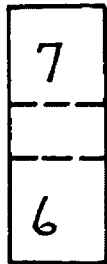
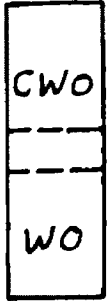
Chemistry  
Physics  
General Shop

Necessary Aptitudes

Airmen Classification Test Battery  
Technical Specialty

SECURITY + LAW ENFORCEMENT CAREER FIELD AFR 35-496

PAY GRADE



INPUT OF QUALIFIED PERSONNEL FROM THIS OR OTHER CAREER FIELDS



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, oversea 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 OCT 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 GCT 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

Pay Grade

W/O

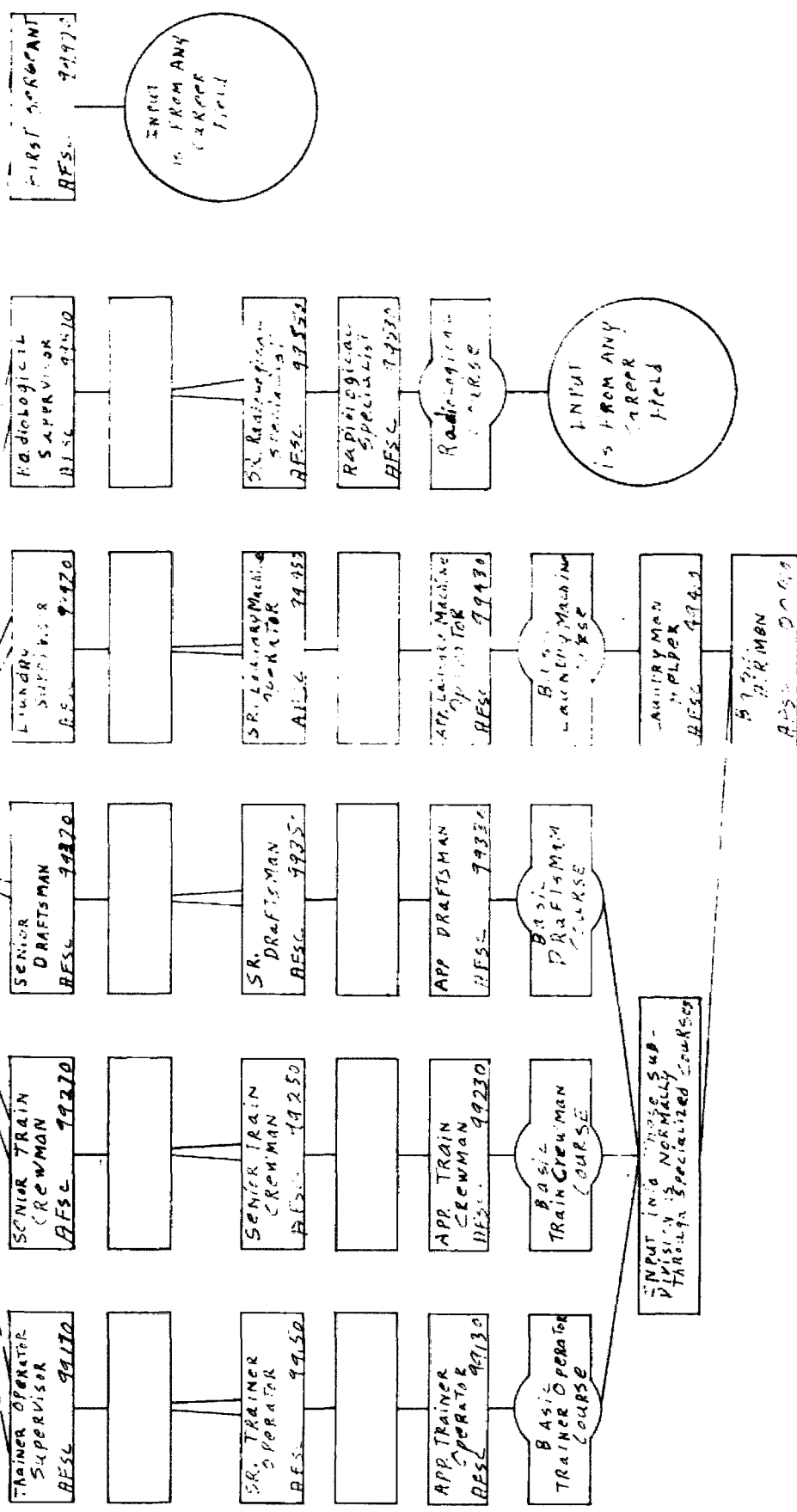
7  
6

5  
4  
3

2  
1

-222-  
SPECIAL ACTIVITIES  
Career Field

PROCESSES AND PROCEDURES  
OFFICERS AND SUPERVISORS  
FIELD WARRANT CLASSIFICATION  
BY WHICH QUALITIES



**SIMULATED TRAINER Sub-division**

**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 warmup 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 0-32.32

**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**

Accomplishes intrabase switching of railroad equipment and operates diesel electric locomotives. Operates switching locomotives. Operates radio transmitting and receiving equipment, when installed in locomotives. Performs operator maintenance on locomotives. Places and removes empty and loaded cars. Throws switches to direct cars to proper tracks. Couples and uncouples cars. Pilots locomotives or trains. Prepares reports and maintains records. Inspects outbound cars. Supervises subordinates.

**Job Requirements**

Requires considerable on the job training in railroad switching service, and work experience.

Demands a GCT 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	5-41.010
Conductor, Mixed Train	0-92.02
Brakeman, Yard	5-38.020
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	0-48.04
Draftsman, Commercial	0-48.06
Draftsman, Construction	0-48.08

Desirable Civilian School Courses

Algebra  
Geometry  
Mechanical Drawing

Necessary Aptitudes

Airmen Classification Test Battery  
Technical Specialty  
Electronics

LAUNDRY Sub-division

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

RADIOLOGICAL Sub-division

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."<sup>1</sup> 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.

---

<sup>1</sup>Occupational Handbook of the United States Air Force, Headquarters, United States Air Force, The Pentagon, Washington 25, D. C., October 1951.

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.

## BIBLIOGRAPHY

A. BOOKS

- Chisholm, Leslie L., Guiding Youth in the Secondary School. New York: American Book Company, 1945. 433 pp.
- Cronbach, Lee J., Essentials of Psychological Testing. New York: Harper and Brothers, 1949. 475 pp.
- Darley, John G., Testing and Counseling in the High School Guidance Program. Chicago: Science Research Associates, 1947. 222 pp.
- Erickson, Clifford E., A Basic Text for Guidance Workers. New York: Prentice-Hall Inc., 1947. 566 pp.
- Kahler, Alfred, and Ernest Hamburger, Education for an Industrial Age. New York: Cornell University Press, 1948. 334 pp.
- Keller, Franklin J., Principles of Vocational Education. Boston: D. C. Heath and Company, 1948. 403 pp.
- Koos, Leonard V., and Grayson N. Kefauver, Guidance in Secondary Schools, New York: MacMillan Company, 1932. 640 pp.
- Rakestraw, C. E., Training High-School Youth for Employment. Chicago: American Technical Society, 1948. 218 pp.
- Williamson, E. G., How to Counsel Students. New York: McGraw-Hill Book Company, Inc., 1939. 562 pp.

B. NEWSPAPERS

- Air Force Times. Published by the Army Times Publishing Co., 3132 E. St., N. W., Washington 7, D. C., dated January 26, 1952.
- The Daily Missoulian, October 21, 1951.

C. UNPUBLISHED MATERIALS

- James, Newton E., "An Investigation of Factors Affecting the Scores Made on the Annual AF ROTC Achievement Examinations." Unpublished Master's Thesis, The University of Montana, Missoula, 1951. 55 pp.

D.

Dictionary of Occupational Titles, Part I. United States  
Department of Labor, Washington, D. C., United States  
Government Printing Office, 1939. 1287 pp.

Dictionary of Occupational Titles, Supplement, Edition III,  
War Manpower Commission, Washington, D. C., United States  
Government Printing Office, 1945. 747 pp.

United States Navy Occupational Handbook, Bureau of Naval Personnel,  
Washington, 25, D. C., 1948. 135 pp.

Occupational Handbook of the United States Air Force, Headquarters  
United States Air Force, The Pentagon, Washington 25, D. C.  
190 pp.

E. OFFICIAL PUBLICATIONS

Air Force Letter 35-390, Airman Aptitude Classification and  
Assignment Program.

Air Force Regulation 35-351, Personnel Classification and Career  
Program Responsibilities.

Air Force Regulation 35-391, Air Force Personnel Classification  
Boards.

Air Force Regulation 35-392, Warrant Officer and Airman Classifica-  
tion Procedures.

Air Force Regulation 35-420, Airman Intelligence Career Field.

Air Force Regulation 35-422, Airman Photomapping Career Field.

Air Force Regulation 35-423, Airman Photographic Career Field.

Air Force Regulation 35-425, Airman Weather Career Field.

Air Force Regulation 35-427, Airman Air Traffic Control and Warning  
Career Field.

Air Force Regulation 35-429, Airman Communications Career Field.

Air Force Regulation 35-430, Airman Radio and Radar Maintenance  
Career Field.

Air Force Regulation 35-431, Airman Missile Guidance Systems  
Career Field.

Air Force Regulation 35-432, Airman Armament Systems Career Field.

- Air Force Regulation 35-433, Airman Weapons Career Field.
- Air Force Regulation 35-434, Airman Training Devices Career Field.
- Air Force Regulation 35-436, Airman Wire Maintenance Career Field.
- Air Force Regulation 35-440, Airman Intricate Equipment Maintenance Career Field.
- Air Force Regulation 35-442, Airman Aircraft Accessories Maintenance Career Field.
- Air Force Regulation 35-443, Airman Aircraft and Engine Maintenance Career Field.
- Air Force Regulation 35-444, Airman Rocket Propulsion Career Field.
- Air Force Regulation 35-446, Airman Munitions and Weapons Maintenance Career Field.
- Air Force Regulation 35-447, Airman Vehicle Maintenance Career Field.
- Air Force Regulation 35-453, Airman Metal Working Career Field.
- Air Force Regulation 35-455, Airman Construction Career Field.
- Air Force Regulation 35-456, Airman Utilities Career Field.
- Air Force Regulation 35-458, Airman Fabric, Leather and Rubber Career Field.
- Air Force Regulation 35-460, Airman Transportation Career Field.
- Air Force Regulation 35-462, Airman Food Service Career Field.
- Air Force Regulation 35-464, Airman Supply Career Field.
- Air Force Regulation 35-465, Airman Procurement Career Field.
- Air Force Regulation 35-470, Airman Administrative Career Field.
- Air Force Regulation 35-471, Airman Printing Career Field.
- Air Force Regulation 35-472, Airman Information Career Field.
- Air Force Regulation 35-473, Airman Personnel Career Field.
- Air Force Regulation 35-475, Airman Education Career Field.
- Air Force Regulation 35-477, Airman Entertainment Career Field.
- Air Force Regulation 35-479, Airman Chaplain Career Field.

Air Force Regulation 35-480, Airman Management Methods Career Field.

Air Force Regulation 35-481, Airman Budgetary, Accounting and Disbursing Career Field.

Air Force Regulation 35-483, Airman Statistical and Machine Accounting Career Field.

Air Force Regulation 35-490, Airman Medical Career Field.

Air Force Regulation 35-492, Airman Rescue and Survival Career Field.

Air Force Regulation 35-493, Airman Ground Safety Career Field.

Air Force Regulation 35-494, Airman Marine Career Field.

Air Force Regulation 35-495, Airman Firefighting Career Field.

Air Force Regulation 35-496, Airman Security and Law Enforcement Career Field.

Air Force Regulation 35-499, Airman Special Services Career Field.

Training Project Outline CG-R-4 (090), Functional Grouping.

Training Project Outline CG-R-102 (120), History of Classification in the Armed Forces.

Training Project Outline CG-R-103 (100), The Development of the Airman Career Program.

Training Project Outline CG-R-109 (090), The Air Force Specialty.

Training Project Outline CG-R-202, Test Administration.

Training Project Outline GP-I, Airmen Classification and Assignment.

Training Project Outline GP-6, Personnel Classification and Career Program Responsibilities.

Training Project Outline GR-7 (011), Job Analysis.

Training Project Outline GR-8 (041), Airman and Warrant Officer Coding System.

Training Project Outline GR-11, Air Force Test and Measurements.

Training Project Outline GR-13, Test Scoring.



## **APPENDIX**

APPENDIX A

FUNCTIONAL GROUPING OF AIR FORCE

CAREER FIELDS

	Page
COMBAT SUPPORT (Occupational Area) . . . . .	22
Intelligence (Career Field) . . . . .	22
Cryptanalysis (Sub-division) . . . . .	23
Radio Traffic Analysis . . . . .	24
Language . . . . .	25
Intelligence Operations . . . . .	26
Photographic Interpretation . . . . .	27
Technical Intelligence . . . . .	28
Photomapping . . . . .	29
Cartographic . . . . .	30
Surveyor . . . . .	32
Photographic . . . . .	33
Aerial Photography . . . . .	34
Photography . . . . .	35
Motion Picture Photography . . . . .	36
Weather . . . . .	38
Weather Equipment Repair . . . . .	39
Weather Forecaster . . . . .	42
Air Traffic Control and Warning . . . . .	44
Air Operations . . . . .	45
Air Traffic Operations and Ground Control Approach . . . . .	46
Aircraft Control and Warning . . . . .	47
Communications Operations . . . . .	49
Communications Center Operations . . . . .	50
Cryptographic Operations . . . . .	51
Radio Operations . . . . .	52
ELECTRONIC ENGINEERING . . . . .	55
Radio and Radar Maintenance . . . . .	55
Radio Maintenance . . . . .	56
Radar Maintenance . . . . .	58
Missile Guidance Systems . . . . .	60
Command Missile . . . . .	61
Automatic Missile . . . . .	62
Preset Missile . . . . .	63
Missile Instrumentation . . . . .	64

	Page
Armament Systems . . . . .	65
Bomb-Navigation Systems . . . . .	66
Fire Control Systems . . . . .	67
Turret Systems . . . . .	68
Weapons . . . . .	70
Weapons Electrical . . . . .	71
Weapons Mechanical . . . . .	72
Training Devices Maintenance . . . . .	73
Instrument and Navigation Trainer Maintenance . . . . .	74
Bomb, Gunnery and Classroom Trainer Maintenance . . . . .	76
Radio and Radar Trainer Maintenance . . . . .	79
Wire Maintenance . . . . .	80
Outside Plant . . . . .	81
Inside Plant . . . . .	82
Communications Machine Maintenance . . . . .	84
Cryptographic Maintenance . . . . .	85
MAINTENANCE ENGINEERING . . . . .	86
Intricate Equipment Maintenance . . . . .	86
Office Machine Repair . . . . .	87
Tabulating Equipment Repair . . . . .	88
Camera Repair . . . . .	89
Instrument Overhaul . . . . .	90
Medical Equipment Repair . . . . .	94
Aircraft Accessories Maintenance . . . . .	95
Supercharger . . . . .	96
Fuel Metering . . . . .	97
Propeller . . . . .	98
Mechanical Accessories and Equipment . . . . .	99
Hydraulic . . . . .	100
Aircraft Electrical Accessories . . . . .	101
Aircraft and Engine Maintenance . . . . .	102
Aircraft Maintenance . . . . .	103
Flight Engineer . . . . .	111
Aircraft Engine Overhaul . . . . .	112
Rocket Propulsion . . . . .	116
Rocket Propulsion . . . . .	117
Munitions and Weapons Maintenance . . . . .	118
Munitions . . . . .	119
Weapons . . . . .	120
Vehicle Maintenance . . . . .	121
Vehicle Maintenance . . . . .	122

	Page
<b>INSTALLATION AND CONSTRUCTION ENGINEERING</b> . . . . .	124
<b>Metal Working</b> . . . . .	124
Machinist . . . . .	125
Metal Processing . . . . .	126
Sheet Metal . . . . .	127
Airframe Repair . . . . .	129
<b>Construction</b> . . . . .	130
Roads and Grounds . . . . .	131
Building Crafts . . . . .	134
<b>Utilities</b> . . . . .	136
Electrical Refrigeration . . . . .	137
Gas Generation . . . . .	139
Water Supply and Sanitation . . . . .	140
Plumbing . . . . .	141
Heating . . . . .	142
<b>Fabric, Leather and Rubber</b> . . . . .	143
Parachute and Fabric . . . . .	144
Rubber Products Repair . . . . .	146
<b>LOGISTICS</b> . . . . .	147
<b>Transportation</b> . . . . .	147
Air Transportation . . . . .	148
Traffic Management . . . . .	150
Motor Transportation . . . . .	152
<b>Food Service</b> . . . . .	154
Baking . . . . .	155
Food Service . . . . .	156
Meat Cutting . . . . .	157
<b>Supply</b> . . . . .	158
Supply . . . . .	159
<b>Procurement</b> . . . . .	162
Procurement . . . . .	163
<b>PERSONNEL AND ADMINISTRATION</b> . . . . .	164
<b>Administrative</b> . . . . .	164
Administrative . . . . .	165
<b>Printing</b> . . . . .	167
Duplicating . . . . .	168
<b>Information</b> . . . . .	169
Information . . . . .	170

	Page
Personnel . . . . .	171
Career Guidance . . . . .	172
Personnel . . . . .	173
Recruitment . . . . .	174
Education . . . . .	175
Technical Training . . . . .	176
General Training . . . . .	177
Entertainment . . . . .	178
Band . . . . .	179
Athletic and Recreation . . . . .	180
Chaplain . . . . .	182
Welfare . . . . .	183
COMPTROLLER . . . . .	184
Management Methods . . . . .	184
Management Engineers . . . . .	185
Production Control . . . . .	186
Budgetary, Accounting and Disbursing . . . . .	188
Budget, Fiscal and Audit . . . . .	189
Disbursing . . . . .	190
Cost Analysis . . . . .	191
Statistical and Machine Accounting . . . . .	192
Statistical . . . . .	193
Machine Accounting . . . . .	194
SPECIAL SERVICES . . . . .	196
Medical . . . . .	196
Aero Medical . . . . .	197
Medical Services . . . . .	198
Radiology . . . . .	200
Medical Laboratory . . . . .	201
Pharmacy . . . . .	202
Medical Administrative . . . . .	203
Preventive Medicine . . . . .	205
Veterinary . . . . .	206
Dental . . . . .	207
Rescue and Survival . . . . .	209
Rescue and Survival . . . . .	210
Ground Safety . . . . .	212
Ground Safety . . . . .	213

	Page
Marine . . . . .	214
Seaman . . . . .	215
Marine . . . . .	216
Firefighting . . . . .	217
Firefighting . . . . .	218
Security and Law Enforcement . . . . .	219
Air Police . . . . .	220
Investigation . . . . .	221
Special Services . . . . .	222
Simulated Trainer . . . . .	223
Railroad Equipment . . . . .	224
Illustrator Draftsman . . . . .	225
Laundry . . . . .	226
Radiological . . . . .	227