

## 1. AS-14 AS-22 30 Aug 46 Military Occupational Specialty Job Specifications

1. Copies of specifications for the following military occupational specialties, prepared by Organization and Training Section, Staff, have been furnished informally to Mr. Rhoads to be used for comparison in the drafting of standard job descriptions for Civil Service jobs which are peculiar to the Agency:

## a. Revisions of existing military occupational specialties:

CODE

0225 Radio Intelligence Officer  
 9240 Communication Security Officer  
 9600 Cryptanalytic Officer  
 9601 Cryptographic Production and Distribution Officer  
 9604 Cryptanalytic Officer, Translations  
 9605 Traffic Analysis Officer  
 9606 Cryptographic Equipment Maintenance and Repair Officer  
 (Designated Equipment)

SGN

538 Intercept Operator, Radiotelephone  
 709 Traffic Analyst  
 738 Intercept Operator, R-diotelegraph  
 801 Cryptographic Repairman (Designated Equipment)  
 807 Compiler, Cryptographic Systems  
 808 Cryptanalytic Technician

(Note: See TM's 12-406 and 12-427 for present descriptions of the above specialties.)

## b. Proposed new military occupational specialties:

OFFICER

Army Security Officer, General  
 Electronic Crypto-Mechanism Officer (Designated Equipment)

ENLISTED

Electronic Crypto-Mechanism Attendant (Designated Equipment)  
 Intercept Operator, Non-Morse  
 Cryptanalytic Translator

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2. Other military occupational specialties in which this Agency is interested, but for which no revised job specifications have been prepared to date, are:

CODE (TM 12-406)

0532 Communications Officer - Special (AH-2)  
 9602 Cryptanalytic Officer, Chemical  
 9603 Cryptographic Officer, Equipment

SSN (TM 12-427)

543 Radio Intelligence Control Chief  
 799 Intercept Operator, Fixed Station  
 977 Radio Security Technician

3. It will be proposed to The Adjutant General that the following existing military occupational specialties be eliminated when the proposed revisions of the MOS's listed opposite them have been published:

CODE (TM 12-406)To be Replaced by  
Revised Job Specification for

9610 Security Officer, Cryptographic

9240

SSN (TM 12-427)

739 Intercept Operator - J  
 6709 Traffic Analyst G  
 8709 Traffic Analyst J

738  
 709  
 709

4. It is desired that the Coordination <sup>Sub.</sup> Committee for Classification and Wage Administration undertake to:

a. Coordinate with interested divisions the revised and new job specifications prepared by Organization and Training Section, Staff, listed in paragraphs 1a and b, above.

b. Review and submit recommendations on the job specifications listed in paragraph 2, above.

c. Submit recommendations for any new military occupational specialties which are considered desirable, together with their minimum specifications.

d. Consideration should also be given to the following military occupational specialties which are of direct but not exclusive interest to this Agency:

CODE (TM 12-406)

0200 Communications Officer  
 0220 Signal Center Officer  
 0221 Signal Center Officer, Field  
 0222 Signal Center Officer, Fixed Station  
 0224 Signal Center Officer, Cryptographic

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SEN (TM 12-427)

- 667 Message Center Clerk
- 674 Message Center Chief
- 805 Cryptographic Technician
- 868 Radio Teletype Mechanic (This job specification was prepared by the AAF and appears to be an unnecessary duplication of the 801)

GEORGE A. BICHER  
Colonel, Signal Corps  
Deputy Chief, Army Security Agency  
Extension 498

ARMY SECURITY OFFICER, GENERAL ( \*)

Commands or supervises all signal intelligence and communication security activities of a headquarters and subordinate units. Formulates plans for the disposition of signal intelligence and communication security organizations and for the most efficient utilization of personnel and facilities. Directs the interception of radio and wire transmissions and the derivation of intelligence therefrom. Directs activities for the employment and detection of invisible writing. Directs the monitoring of friendly radio and wire circuits and the analysis of friendly traffic for violations of transmission and cryptographic security; makes recommendations for the improvement of all phases of communication security including physical, transmission and cryptographic security. Directs the compilation, storage, distribution and accounting of cryptographic material and the repair and maintenance of cryptographic equipment where applicable. Advises on the security of electrical communication circuits. Interprets signal intelligence and communication security doctrine and regulations. May direct research and development activities in the signal intelligence and communication security fields.

Must have a thorough knowledge of the tactical and strategic employment of signal intelligence and communication security units, and have a general background knowledge of all signal intelligence and communication security doctrine, principles and procedures.

\*Code to be assigned.

Cryptographic clearance essential.

Military experience in signal intelligence and communication security essential.

Civilian experience in radio or electrical engineering desirable.

Should be college graduate with training in radio theory, mathematics, chemistry or languages.

(If a more detailed description of the duties of this specialist is required, a request therefor should be addressed to the Chief, Army Security Agency, The Pentagon, Washington 25, D. C., Attention: WDGAS-22)

#### SOURCE JOBS

Radio Engineer

Mathematician

Electrical Engineer

Cryptanalyst

Physicist

Student of Cryptography

Chemist

ARMY SECURITY OFFICER, GENERAL ( \*)

Commands or supervises all signal intelligence and communication security activities of a headquarters and subordinate units. Formulates plans for the disposition of signal intelligence and communication security organizations and for the most efficient utilization of personnel and facilities. Directs and controls tactical and fixed station radio interception, direction finding, identification of radio transmitting stations; directs and controls tactical wire interception activities. Directs the monitoring of friendly radio and wire circuits for violations of transmission and cryptographic security; makes recommendations for the improvement of all phases of communication security including physical, transmission, and cryptographic security. Directs the derivation of intelligence by means of traffic analysis and cryptanalysis, including such translation activities as may be necessary. Directs the compilation and analysis of friendly radio traffic data and the preparation of radio control traffic, or formulates appropriate recommendations for necessary corrections to prevent successful traffic analysis of our own communications. Directs the compilation, storage, distribution and accounting of cryptographic material and the repair and maintenance of cryptographic equipment where applicable. Directs the employment and detection of invisible writing and the solution of open codes and shorthand systems. Advises the local Army censorship on cryptanalytic matters. Advises on

\*Code to be assigned.

~~SECRET~~

the security of electrical communication circuits over which classified communications may be authorized for transmission in plain language. Inspects signal and message centers and reports on the physical, transmission and cryptographic security practices thereat. Interprets signal intelligence and communication security doctrine and regulations. May direct research and development activities in the signal intelligence and communication security fields.

Must have a thorough knowledge of the tactical and strategic employment of signal intelligence and communication security units, and have a general background knowledge of all signal intelligence and communication security doctrine, principles and procedures.

Cryptographic clearance essential.

Military experience in signal intelligence and communication security essential.

Civilian experience in radio or electrical engineering desirable.

Should be college graduate with training in radio theory, mathematics, chemistry or languages.

#### SOURCE JOBS

Radio Engineer

Mathematician

Electrical Engineer

Cryptanalyst

Physicist

Student of Cryptography

Chemist

~~SECRET~~

## RADIO INTELLIGENCE OFFICER (0225)

Commands or supervises a radio intelligence organization engaged in the interception of radio traffic, direction finding activities, and traffic analysis.

Must have a knowledge of radio theory; the basic principles of traffic analysis; the operations of radio communications systems; and the employment, installation, and operation of radio intelligence equipment such as radio receivers, control systems, direction finders, and associated equipment. Must have a knowledge of International Morse Code. Must have a general knowledge of various types of traffic which have intelligence value.

Military training in radio intelligence work is essential.

Civilian experience in radio communications and engineering is desirable.

## SOURCE JOBS

Radio Engineer

Radio Operator

Electrical Engineer

## COMMUNICATION SECURITY OFFICER (9240)

Directs the maintenance of security for military messages transmitted through Army or commercial facilities. Supervises physical, cryptographic, and transmission security activities. May inspect code rooms and transmission facilities to assure protection against fire, sabotage, and unauthorized access. May supervise the preparation of communication security instructions. Supervises the secure use of cryptographic systems and equipment. Supervises employment of secure methods of distributing, handling, and filing plain-text copies of cryptograms. Supervises operating practices and circuit discipline. Provides for review of classification and phraseology of messages.

Must have knowledge of cryptography and of uses and limitations of radio, teletype, and other communication equipment. Must be familiar with principles of cryptanalysis and traffic analysis. Cryptographic clearance essential.

Military experience in communications essential. Civilian managerial experience in communications desirable.

Should be a college graduate.

## SOURCE JOBS

Communications Engineer

Physicist

Cryptanalyst

High School or College  
Instructor

## CRYPTANALYTIC OFFICER (9600)

Devises methods of solving cryptographic systems and supervises the cryptanalysis of intercepted cryptographed traffic in general or in a designated language. Conducts or directs the analysis of friendly traffic for violations of cryptographic security. Makes recommendations to increase the security of cryptographic systems.

Must have a thorough knowledge of cryptography and cryptanalysis. Must possess initiative, patience, and marked deductive ability. Must know organization and terminology of appropriate military forces. Should have some knowledge of physics, mathematics, statistics, and traffic analysis.

Military experience in cryptography highly desirable.

Cryptographic clearance essential.

Civilian experience in the fields of cryptography, mathematics, physics, actuarial science or chemistry essential.

Should be college graduate with specialization in physics, mathematics, and statistics.

## SOURCE JOBS

Mathematician

Physicist

Actuary

Chemist

Cryptanalyst

Student, Cryptography

Accountant

## CRYPTOGRAPHIC PRODUCTION AND DISTRIBUTION OFFICER (9601)

Prepares and supervises the production, distribution and accounting for authorized cryptographic systems, keys, and supplements.

Must have a thorough understanding of War Department systems and the precautions necessary to safeguard these systems.  
Should have training in mathematics. Must know military organization and terminology.

Cryptographic clearance essential.

Basic military background and military experience in cryptography highly desirable.

Civilian experience in cryptography, or mathematics desirable.

College education desirable.

## SOURCE JOBS

Mathematician	Student, Arts and Sciences
Actuary	Student, Cryptography
Cryptanalyst	

## CRYPTANALYTIC OFFICER, TRANSLATIONS (9604)

Translates messages written in a specific foreign language and assists in the solution of foreign cryptographic systems.

Must possess an excellent knowledge of the designated language. Must possess thorough knowledge of the organization and order of battle of designated military forces, and forms and phraseology peculiar to the designated language as used in cryptography. Knowledge of foreign customs, personalities and geography desirable.

Basic military background desirable.

Cryptographic clearance essential.

Civilian experience in the translation of foreign languages and travel experience highly desirable.

College education with specialization in language desirable.

## SOURCE JOBS

Language Instructor

Translator

Language Student

Expert Manager

## TRAFFIC ANALYSIS OFFICER (9605)

Conducts or directs the analysis of traffic of designated communication systems for the purpose of obtaining a knowledge of their organization and operation, and applies the knowledge so gained to the coordination of intercept and direction finding operations, to the assistance of cryptanalytic operations, and to the derivation of intelligence. Conducts or directs the analysis of friendly radio and wire traffic from the transmission security standpoint.

Must have a thorough knowledge of the procedure used by the designated communication systems. Should be familiar with the geography of the area in which the systems operate, and the organization and order of battle of the forces concerned. Should have a knowledge of cryptography and cryptanalytic principles. Ability to read and translate the appropriate language is desirable.

Basic military background and experience in signal intelligence or military radio communication desirable.

Cryptographic clearance is essential.

Civilian experience in commercial communication systems, statistical work, or languages is desirable.

Education on college level desirable.

## SOURCE JOBS

Amateur Radio Operator

Traffic Analyzer, Commercial  
Communication System

Statistician

Translator

## CRYPTOGRAPHIC EQUIPMENT MAINTENANCE AND REPAIR OFFICER

(Designated Equipment) (9606 - ( )\*)

Directs and supervises the installation, inspection, maintenance and repair of designated cryptographic equipment and associated accessories. Analyzes technical and operational difficulties on designated cryptographic equipment and provides corrective measures. Supervises personnel engaged in the cleaning, disassembly, replacement of defective parts, adjustments and the proper techniques of cryptographic equipment maintenance. Maintains appropriate records and prepares required reports.

Must have appropriate knowledge of other subjects and material associated with the particular designated cryptographic equipment. Further prerequisite qualifications for officers in the category are outlined in letters distributed to holders of such designated cryptographic equipment.

Must not be color blind.

Must have cryptographic clearance.

Military experience desirable.

Civilian experience should include several years experience in the installation, maintenance, and repair of intricate electro-mechanical equipment.

Should be graduate of technical or vocational school.

## SOURCE JOBS

Teletypewriter Repairman

Calculating Machine  
Serviceman

Typewriter Repairman

\*Specific classes of cryptographic equipment will be defined in classified War Department letters.

## CRYPTANALYTIC TRANSLATOR ( \*)

Trnaslates messages written in a specific foreign language and assists in the solution of foreign cryptographic systems.

Must possess an excellent knowledge of the designated language; a thorough knowledge of the organization and order of battle of deisgnated military forces, and a general understanding of the economic and political organization of a designated area. Must possess marked deductive ability and sound judgment as well as the ability to correlate his knowledge of the designated language with the forms and phraseology peculiar to that language as used in cryptography.

Cryptographic clearance essential.

**SUGGESTED SUBSTITUTE:**

267 - Translator

\*Specification Serial Number to be assigned

INTERCEPT OPERATOR, RADIOTELEPHONE (538)

Identifies and intercepts voice radio transmissions in a designated foreign language by operating a radio receiver and other equipment. Copies or records intercepted transmissions and translates into English. Copies such low speed International Morse Code and any radiotelegraph codes or characters which are peculiar to the designated language as may be encountered when enemy station changes over from voice to code transmission.

Operates equipment such as receivers, sound recorders, and transcribers. Tunes in radio receiver on an assigned frequency or by searching over a band of frequencies. Records intercepted traffic by hand, typewriter or by transcribing data from recordings.

Performs first echelon maintenance by inspecting, dusting and oiling equipment; makes simple repairs or adjustments such as changing tubes and adjusting frequencies. Uses simple hand tools.

Must be able to receive and print pencil copy (without error) International Morse Code sent at a speed of 8 five-letter random code groups perminute for a minimum period of three consecutive minutes out of five. Also must be able to receive and copy without error any radiotelegraph code or characters peculiar to the designated language by hand printing and typewriter at speeds equivalent to those outlined for International Morse Code in the group form commonly used.

Must have an excellent understanding of the designated foreign language in its spoken form and be able to translate it accurately into English. Must have a thorough knowledge of military terminology used in the foreign language and in English. Training in shorthand is desirable.

SUGGESTED SUBSTITUTES:

267 Translator

320 Interpreter

## TRAFFIC ANALYST (709)

Assists in the analysis of traffic of designated communication systems for the purpose of obtaining a knowledge of their organization and operation and applies the knowledge so gained to the coordination of intercept and direction finding operations, to the assistance of cryptanalytic operations, and to the derivation of intelligence without recourse to cryptanalysis. Assists in the analysis of friendly radio and wire traffic for violations of transmission security.

Must have thorough knowledge of the procedure used by the designated communication systems. Should be familiar with the geography of the area in which the systems operate and the organization and order of battle of the forces concerned. Should be familiar with principles of cryptography and cryptanalysis. Ability to read and translate the appropriate language is desirable.

Cryptographic clearance essential.

Training in languages, mathematics, or statistical procedures desirable.

## SUGGESTED SUBSTITUTES:

808 Cryptanalysis Technician

738 Intercept Operator,  
Radiotelegraph

267 Translator

## INTERCEPT OPERATOR, RADIOTELEGRAPH (738)

Identifies, intercepts, and copies International Morse Code radio signals, and any radiotelegraph codes or characters which are peculiar to a designated language, by means of radio receiver.

Installs and operates radio receiving and direction finding equipment including auxiliary accessories such as frequency meters, sound recorders, panoramic adaptors, antenna systems, and power units. Tunes in radio receiver on an assigned frequency, or by searching over a band of frequencies. Records intercepted traffic by typewriter or hand printing. Operates direction-finding equipment, takes bearings and plots them on a map. Maintains intercept logs and other records pertaining to the handling of messages.

Performs first echelon maintenance by inspecting, dusting and oiling equipment; making simple repairs, or adjustments, such as changing tubes. Uses simple hand tools.

Must be able to receive and copy without error International Morse Code by hand printing at a speed of 20 five-letter random code groups per minute and by typewriter at a speed of 25 five-letter random code groups per minute, both for a minimum period of 3 consecutive minutes out of 5. Also must be able to receive and copy without error any radiotelegraph code or characters peculiar to a designated language by hand printing and typewriter at speed equivalent to those outlined for International Morse Code and in the group form commonly used.

Must be familiar with and understand the radio procedure used by designated radio communication systems including the use of procedure signs and signals.

SUGGESTED SUBSTITUTE:

766 Radio Operator, High Speed, Manual

CRYPTOGRAPHIC REPAIRMAN  
(Designated Equipment) (801-( )\*)

Installs, inspects, maintains, and repairs designated cryptographic equipment and associated accessories. Analyzes technical and operations difficulties on designated cryptographic equipment and provides corrective measures. Cleans, inspects, replaces defective parts, and makes adjustments for the proper maintenance of the designated cryptographic equipment.

Uses special tools and devices as specified for the proper technique of cryptographic equipment maintenance.

Must have thorough knowledge of the principles of electricity, electrical and mechanical measuring instruments, schematic and plan wiring diagrams and the tracing of circuits.

Must have appropriate knowledge of other subjects and material associated with the particular designated cryptographic equipment. Further prerequisite qualifications for personnel in this category are outlined in letters distributed to holders of such designated cryptographic equipment.

Must not be color blind.

Must have cryptographic clearance.

\*Specific classes of cryptographic equipment will be defined in classified War Department letters.

## CRYPTOGRAPHIC TECHNICIAN (805)

Cryptographs and decryptographs classified messages. Should be familiar with all types of cryptographic systems and equipment employed by the Army. Handles highly classified communications and maintains cryptographic files.

Must have a thorough working knowledge of cryptographic security, cryptonets, and instructions governing the various cryptographic systems. Must be able to review messages for violations of security and defects in cryptographing. Should be adept in handling garbled cryptograms. Should be familiar with electrical communications procedure. Must be capable of typing at a minimum rate of 25 words per minute.

Cryptographic clearance essential.

## SUGGESTED SUBSTITUTE

667 Message Center Clerk

## COMPILER, CRYPTOGRAPHIC SYSTEMS (807)

CRYPTOGRAPHER

CODE COMPILER

Prepares or assists in preparing, compiling and revising codebooks and cipher systems, keys, and supplements for use in cryptographic military communications.

Must have a thorough knowledge of War Department cryptographic systems and the precautions necessary to safeguard these systems.

Knowledge of elementary principles of cryptanalysis and training in mathematics is desirable.

Cryptographic clearance essential.

SUGGESTED SUBSTITUTES:

805 Cryptographic Technician

## CRYPTANALYTIC TECHNICIAN (808)

Decodes and decipheres cryptograms without the aid of the device or key used in preparing them.

Analyzes intercepted cryptographed messages and determines the key by using deductive reasoning and employing knowledge of various cryptographic systems. Analyzes friendly radio and wire traffic for violations of cryptographic security.

Must have a general background knowledge of the cryptographic systems used by modern armies; a thorough understanding of basic and advanced principles of cryptanalysis; and a basic knowledge of the appropriate language. Must possess initiative, patience, and marked deductive ability. Should have some mathematical training.

May supervise others in cryptanalysis.

Cryptographic clearance essential.

## SUGGESTED SUBSTITUTES:

- 805 Cryptographic Technician
- 807 Compiler, Cryptographic Systems
- 267 Translator
- 709 Traffic Analyst

## RADIO INTERCEPT OPERATOR, NON-MORSE ( )\*)

Identifies and intercepts Non-Morse radio signals by means of a radio receiver and associated equipment. Records signals, using sound recorders, ink recorders, facsimile recorders, teletypewriters, or other automatic printers. Operates radio receiving equipment, including frequency meters, ink and sound recorders, automatic printers, single side band receivers, speech inverters and scramblers, channel shifting equipment, spectographs, and associated equipment. Tunes receivers on an assigned frequency or by searching over a frequency band. Maintains station logs and other records pertaining to the handling of messages. Performs first echelon maintenance by inspecting, dusting, adjusting, and oiling equipment. Uses simple hand tools.

Must be able to receive International Morse Code by hand printing at a speed of 10 five-letter random code groups for a minimum of three consecutive minutes out of five without error. Must have a thorough knowledge of the basic principles of radio, including such concepts as frequency modulation, sidebands, channel shifting, and working knowledge of the basic principles of the intercept equipment he must use. Must have a thorough knowledge of combined radiotelephone, radiotelegraph, and authentication procedures.

## SUGGESTED SUBSTITUTES:

543 Radio Intelligence Control Chief  
738 Intercept Operator, Radiotelegraph  
799 Intercept Operator, Fixed Station

\*SSN to be assigned.

## ELECTRONIC CRYPTO-MECHANISM OFFICER

(Designated Equipment) ( - ( )\*)

Commands or supervises a unit charged with the installation, operation, maintenance and repair of designated electronic crypto-mechanisms and is responsible for the initiation and observance, in relation to the designated equipment, of all precautions necessary to insure proper physical, cryptographic, and transmission security. Recommends engineering changes in equipment. Supervises the keeping of station logs and maintenance records. Supervises the preparation of required reports. Requisitions technical supplies, replacement parts, T/O & E items and common supplies. Keeps necessary property records.

Must be thoroughly familiar with radio theory and have a thorough working knowledge of the operating theory, installation, operation, maintenance and repair of designated complex electro-mechanical and/or electronic equipment. Must be familiar with Army organization, terminology and the details of administration of small units including Army supply procedures. ~~Must not be color blind.~~ *True color percept - essential*

Cryptographic clearance essential.

Civilian experience in electrical or radio engineering desirable.

College education with degree in electrical or radio engineering, or equivalent in experience in the maintenance of complex electronic equipment is desirable.

## SOURCE JOBS

Electronic Engineer  
Radio Engineer  
Physicist

Electrical Engineer  
Commercial Communications  
Engineer

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\*Code to be assigned. Specific classes of equipment will be defined in classified War Department letters.

## ELECTRONIC CRYPTO-MECHANISM ATTENDANT

(Designated Equipment) ( - ( )\*)

Installs, operates, maintains and repairs designated electronic crypto-mechanisms. Coordinates starting information with distant terminals and makes the required adjustments for operation. Performs third echelon maintenance and repairs on designated equipment and associated accessories.

During transmission must be able to recognize signs of improper operation or equipment failures and take proper action to prevent the loss of security or damage to equipment. Must be thoroughly familiar with radio theory and have a thorough working knowledge of the operating theory of designated complex electro-mechanical and/or electronic equipment and be able to use the mechanical and electrical measuring and test equipment required to locate troubles and to effect necessary corrections. Must be adept at reading schematic and plan wiring diagrams and the tracing of circuits. Must be able to use with unusual dexterity a variety of common hand tools and such special tools as may be required to accomplish necessary repairs. ~~Must not be color-blind.~~ *True color perception: essential.*

Cryptographic clearance essential.

## SUGGESTED SUBSTITUTE:

649 Radio Repairman, Fixed Station

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\*SSN to be assigned. Specific classes of equipment will be defined in classified War Department letters.

## INTERCEPT EQUIPMENT REPAIRMAN, NON-MORSE ( \*)

Installs, inspects, tests, and repairs all types of equipment peculiar to non-morse radio interception and analysis including frequency shifters, tone modulated multiplex terminals, time base multiplex distributors, speech inverters and scramblers, spectrographs, facsimile recorders and other specialized equipment, peculiar to Army Security Agency activities.

Must have a thorough knowledge of basic principles of radio including amplitude modulation, frequency modulation, single sideband and frequency shifting operation; multiplex and single channel non-morse terminal equipment; <sup>voice & speech privacy systems</sup> and speech privacy systems. Must be thoroughly familiar with standard radio maintenance and repair procedures. Must be able to use common hand tools and test equipment.

## SUGGESTED SUBSTITUTE:

648 Radio Repairman  
649 " " *Signal Station*

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\* SSN to be assigned

CRYPTANALYTIC TRANSLATOR ( \*)

Translates messages written in a specific foreign language and assists in the solution of foreign cryptographic systems.

Must possess an excellent knowledge of the <sup>appropriate</sup> designated language; a thorough knowledge of the organization of designated military forces, and a general understanding of the economic and political organization of a designated area. Must possess marked deductive ability and sound judgment as well as the ability to correlate his knowledge of the <sup>appropriate</sup> designated language with the forms and phraseology peculiar to that language as used in cryptography.

Cryptographic clearance essential.

SUGGESTED SUBSTITUTES:

267 - Translator

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\* SSN to be assigned.

## RADIO INTERCEPT OPERATOR, NON-MORSE ( \*)

Identified and intercepts Non-Morse radio signals by means of a radio receiver and associated equipment. Records signals, using sound recorders, ink recorders, facsimile recorders, teletypewriters, or other automatic printers. Operates radio receiving equipment, including frequency meters, ink and sound recorders, automatic printers, single sideband receivers, speech inverters and scramblers, channel shifting equipment, spectrographs, and associated equipment. Tunes receivers on an assigned frequency or by searching over a frequency band. Maintains station logs and other records pertaining to the handling of messages. ~~Performs first echelon maintenance.~~  
~~Uses simple hand tools.~~

Must be able to receive International Morse Code by hand printing at a speed of 10 five-letter random code groups <sup>per minute</sup> for a minimum of three consecutive minutes out of five without error. Must have a thorough knowledge of the basic principles of radio, including such concepts as frequency modulation, sidebands, channel shifting, and a working knowledge of the basic principles of the intercept equipment he must use. Must have a thorough knowledge of ~~combined~~ radiotelephone, radiotelegraph, <sup>radiotelegraph</sup> and authentication procedures. Must have a general knowledge of the various types of traffic which have intelligence value.

## SUGGESTED SUBSTITUTES:

543 Radio Intelligence Control Chief

738 Intercept Operator - G

739 Intercept Operator - J

799 Intercept Operator, Fixed Station

\* SSN to be assigned.

## RADIO INTERCEPT OFFICER, NON-MORSE ( \*)

Commands or supervises a radio intelligence unit engaged in the interception of non-morse radio traffic.

Must have a knowledge of the basic principles of radio including such concepts as frequency modulation, sidebands, <sup>and</sup> channel shifting; the basic principles of traffic analysis; the operations of radio communication systems; and the employment, installation, and operation of radio equipment including frequency meters, ink and sound recorders, automatic printers, single sideband receivers, speech inverters and scramblers, channel shifting equipment, spectographs, and associated equipment used in the interception of non-morse radio transmissions. (Must be familiar with Army organization).

*Must* have a general knowledge of the various types of traffic which have intelligence *must be capable of analyzing & identifying various types of non-morse* ~~intrinsic~~ value. Must have a thorough knowledge of combined radiotelephone, *radiotelegraph* and authentication procedures.

Military training in radio intelligence work is essential.

Civilian experience in radio communications and engineering is desirable.

## SOURCE JOBS

Radio Engineer

Radio Operator