

1 January 1952

AFM 34-1
AFSC 2034
Entry AFSC 2031

OFFICER AIR FORCE SPECIALTY

INTELLIGENCE COMMUNICATIONS OFFICER

1. SPECIALTY SUMMARY

Collects and evaluates information obtained from interception of enemy communications and electronic traffic and commands field units.

2. DUTIES AND RESPONSIBILITIES

a. *Analyses intercepted enemy communications* Evaluates such information as organization strength, movement activity, location, and plans of foreign units from study of radio intercept and traffic analysis data. Synthesizes results with collateral information to provide data on organization and operation of specified communications networks. Prepares studies, summaries, and reports of situations, disposition, and intention of enemy as determined from processed information.

b. *Directs communications intelligence activities:* Directs traffic analysis technicians in compilation of extracted data, development of analytic attacks, and preparation of specifications for radio net diagrams. Directs collection, evaluation, interpretation, and dissemination of information concerning enemy electronic countermeasures. Establishes training programs to qualify personnel as traffic analysts. Inspects units to insure efficient use of intercept facilities. Coordinates traffic analysis activities with cryptanalysis.

b. *Directs communications intelligence activities:* Directs traffic analysis technicians in compilation of extracted data, development of analytic attacks, and preparation of specifications for radio net diagrams. Directs collection, evaluation, interpretation, and dissemination of information concerning enemy electronic countermeasures. Establishes training programs to qualify personnel as traffic analysts. Inspects units to insure efficient use of intercept facilities. Coordinates traffic analysis activities with cryptanalysis.

3. SPECIALTY QUALIFICATIONS

a. *Education:*

(1) Knowledge of the principles of radio transmission, communications procedures, and techniques of collection and evaluation of intercepted enemy communications is *mandatory*.

(2) Knowledge of statistical procedures is *desirable*. Proficiency in a foreign language is *desirable*.

(3) Bachelor's degree in mathematics is *desirable*.

b. *Experience.* A minimum of 12 months' experience in traffic analysis assignments is *mandatory*. It is *mandatory* that experience include analysis of enemy communications, synthesis and evaluation of intelligence data, and determination of location of enemy units.

c. *Training.* Completion of military traffic analysis and cryptanalytic course is *desirable*.

4. SPECIALTY DATA

a. *Grade Spread:* Second lieutenant through major.

b. *Source Job (D. O. T.):*

Statistician	0-35.75
Mathematician	0-35.76

1 January 1952

AFM 36-1
AFSC 2024
Entry AFSC 2021

OFFICER AIR FORCE SPECIALTY

INTELLIGENCE CRYPTANALYTIC OFFICER

1. SPECIALTY SUMMARY

Devises methods of solving cryptographic systems and directs cryptanalysis of intercepted traffic.

2. DUTIES AND RESPONSIBILITIES

a. *Devises methods of solving cryptographic systems:* Develops and improves techniques and procedures for solution of cryptographic systems. Collates information gained from cryptanalysis with traffic analyses. Recommends additions or changes in intercept plans to increase volume of designated messages required for solving codes. Corrects deficiencies of encoding and decoding systems on basis of intercepted messages. Prepares studies on

coding systems, coding formulae, and technological advances in cryptographic equipment.

b. *Directs cryptanalytic activities:* Assigns compilation of codes and ciphers and development of cryptanalytic approaches to technicians. Determines personnel and materiel requirements for cryptanalytic activities. Directs training programs to qualify personnel for cryptanalytic duties.

3. SPECIALTY QUALIFICATIONS

a. *Education:*

(1) Knowledge of statistical principles and mathematical methods required to solve problems involving masses of observations is *mandatory*.

(2) Proficiency in a foreign language is desirable.

(3) Bachelor's degree in mathematics or statistics is desirable.

b. *Experience.* A minimum of 12 months' experience in cryptanalytic assignments is *mandatory*.

c. *Training.* Completion of military cryptanalytic and traffic analysis course is desirable.

4. SPECIALTY DATA

a. *Grade Spread:* Second lieutenant through major.

b. *Source Jobs (D. O. T.):*

Statistician I	0-35.75
Mathematician	0-35.76
Cryptanalyst	0-68.33