

CHAPTER 20



CRYPTOLOGIC TECHNICIAN (CT)

NAVPERS 18068-20K

CH-63

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TABLE OF CONTENTS
CRYPTOLOGIC TECHNICIAN (COLLECTIONS) (CTR)

SCOPE OF RATING	CTR-4
GENERAL INFORMATION	CTR-5
SIGNALS INTELLIGENCE COLLECTION ANALYST AND REPORTER	CTR-6
COLLECTIONS	CTR-6
COMMUNICATION ELECTRONIC ATTACK	CTR-7
COMMUNICATION EXTERNALS ANALYSIS	CTR-8
GEOLOCATION	CTR-8
GEOSPACIAL META-DATA ANALYSIS	CTR-8
INFORMATION OPERATIONS	CTR-8
REPORTING	CTR-8
RESEARCH AND ANALYSIS	CTR-9
RESOURCE MANAGEMENT	CTR-9
SECURITY AND ADMINISTRATION	CTR-9
SIGNALS ANALYSIS	CTR-9
TARGET ANALYSIS	CTR-10
COMMUNICATION INTELLIGENCE COLLECTION SIGNALS ANALYST	CTR-11
COLLECTIONS	CTR-11
COMMUNICATION ELECTRONIC ATTACK	CTR-12
COMMUNICATION EXTERNALS ANALYSIS	CTR-12
GEOLOCATION	CTR-13
GEOSPATIAL META-DATA ANALYSIS	CTR-13
INFORMATION OPERATIONS	CTR-13
REPORTING	CTR-13
RESEARCH AND ANALYSIS	CTR-13
RESOURCE MANAGEMENT	CTR-13
SECURITY AND ADMINISTRATION	CTR-14
SIGNALS ANALYSIS	CTR-14
TARGET ANALYSIS	CTR-15
COLLECTION OPERATIONS MANAGER	CTR-16
COLLECTIONS	CTR-16
COMMUNICATION ELECTRONIC ATTACK	CTR-17
COMMUNICATION EXTERNALS ANALYSIS	CTR-17
GEOLOCATION	CTR-17
INFORMATION OPERATIONS	CTR-17

TABLE OF CONTENTS (cont'd)
CRYPTOLOGIC TECHNICIAN (COLLECTIONS) (CTR)

REPORTING	CTR-17
RESEARCH AND ANALYSIS	CTR-18
RESOURCE MANAGEMENT	CTR-18
SECURITY AND ADMINISTRATION	CTR-18
SIGNALS ANALYSIS	CTR-18
TARGET ANALYSIS	CTR-19
COLLECTION OPERATOR	CTR-20
COLLECTIONS	CTR-20
COMMUNICATION ELECTRONIC ATTACK	CTR-20
COMMUNICATION EXTERNALS ANALYSIS	CTR-21
GEOLOCATION	CTR-21
GEOSPATIAL META-DATA ANALYSIS	CTR-21
INFORMATION OPERATIONS	CTR-21
REPORTING	CTR-21
RESOURCE MANAGEMENT	CTR-21
SECURITY AND ADMINISTRATION	CTR-21
SIGNALS ANALYSIS	CTR-22
TARGET ANALYSIS	CTR-22

NAVY ENLISTED OCCUPATIONAL STANDARDS
FOR
CRYPTOLOGIC TECHNICIAN (COLLECTION) (CTR)



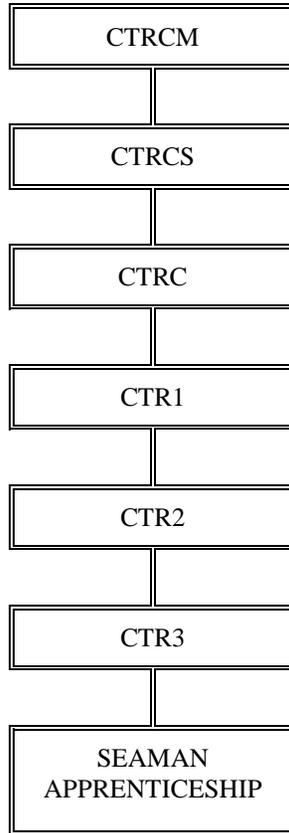
SCOPE OF RATING

Cryptologic Technicians (Collection) (CTR) operate state-of-the-art computer systems to conduct Information and Cyberspace Operations; collect, analyze and exploit signals of interest to identify, locate and report worldwide threats; control and safeguard access to classified material and information systems; provide tactical and strategic signals intelligence, technical guidance, digital network intelligence, and information warfare support to surface, subsurface, air, special warfare units, and national consumers to maintain information dominance.

These Occupational Standards are to be incorporated in Volume I, Part B, of the Manual of Navy Enlisted Manpower and Personnel Classifications and Occupational Standards (NAVPERS 18068F) as Chapter 20.

GENERAL INFORMATION

CAREER PATTERN



Normal path of advancement to Chief Warrant Officer and Limited Duty Officer categories can be found in OPNAVINST 1420.1.

For rating entry requirements refer to MILPERSMAN article 1306-618.

SAFETY

The observance of Operational Risk Management (ORM) and proper safety precautions in all areas is an integral part of each billet and the responsibility of every Sailor; therefore, it is a universal requirement for all ratings.

Job Code

Signals Intelligence Collection Analyst and Reporter

Job Title

001072

Job Family

Computer and Mathematical

NOC

TBD

Short Title (30 Characters)

SIG INTEL COL ANAL AND REP

Short Title (14 Characters)

SIGINT COL REP

Pay Plan

Enlisted

Career Field

CTR

Other Relationships and Rules

Not applicable, based upon the NEC assigned to the job (if any).

Job Description

Signals Intelligence Collection Analysts and Reporters develop targets in support of Information Operations (IO); collect, analyze, and fuse target communications and multiple source information identifying Essential Elements of Information (EEIs) to map and develop target networks, execute geolocation operations and data extractions; access and manipulate databases to perform planning and fusion analysis; develop targets for communications Electronic Attack (EA) planning, execution, and assessment; provide Area of Responsibility (AOR) specific Signals Intelligence (SIGINT) trend and predictive analysis in support of Priority Intelligence Requirements (PIRs); draft and disseminate Signals Intelligence (SIGINT) reports, cryptologic mission reports, emergency action plans, and sanitized product reports; and comply with classified information storage, transportation, and protection requirements.

DoD Relationship

O*NET Relationship

Group Title

Intercept Operators (Code and Non-Code)

DoD Code

123100

Occupation Title

Computer Programmers

SOC Code

15-1131.00

Job Family

Computer and Mathematical

Skills

Critical Thinking

Complex Problem Solving

Active Learning

Operations Analysis

Reading Comprehension

Operation and Control

Systems Analysis

Coordination

Judgment and Decision Making

Management of Material Resources

Abilities

Information Ordering

Inductive Reasoning

Deductive Reasoning

Category Flexibility

Written Expression

Speed of Closure

Written Comprehension

Memorization

Oral Expression

Selective Attention

COLLECTIONS

Paygrade

Task Type

Task Statements

E4

CORE

Adjust antennas for optimal signals exploitation

E4

CORE

Allocate Signals Intelligence (SIGINT) collection resources

E4

CORE

Analyze intercept to identify Essential Elements of Information (EEI)

E4

CORE

Brief Signals Intelligence (SIGINT) operations

E4

CORE

Collect Signals Of Interest (SOI)

E4

CORE

Configure receivers for signals exploitation

E4

CORE

Connect equipment for optimal signals collection

E4

CORE

Correlate case notations

E4

CORE

Disseminate Indications and Warning (I&W) to tactical commanders

E5

CORE

Evaluate analysis and reporting operations

E6

CORE

Evaluate cryptologic operations

E4

CORE

Execute commands within various operating systems

E5

CORE

Exploit Electromagnetic (EM) spectrum

E4

CORE

Forward digitized signals

E4

CORE

Identify antennas and transmission lines

E4	CORE	Identify PROFORMA signal functions
E4	CORE	Implement cryptologic taskings
E4	CORE	Implement Signal Descriptor Files (SDF)
E5	CORE	Implement Signals Collection Plan (SCP)
E4	CORE	Monitor Signals of Interest (SOI) frequencies
E4	CORE	Operate collection systems
E5	CORE	Operate computer software for intermediate analysis
E4	CORE	Operate demodulators
E4	CORE	Operate multiple operating systems
E4	CORE	Operate software-based analysis tools
E4	CORE	Operate spectrum analyzer
E4	CORE	Perform geolocation/Direction Finding (DF) of distress signals
E4	CORE	Perform target exploitation
E4	CORE	Provide inputs for Signals Intelligence (SIGINT) reports
E4	CORE	Record signals
E4	CORE	Select antennas for signals exploitation
E4	CORE	Select receivers for signals exploitation
E4	CORE	Set up collection systems
E5	CORE	Supervise collection operations
E4	CORE	Troubleshoot system equipment failures and errors
E4	CORE	Troubleshoot system software failures and errors
E6	CORE	Verify existing directives and guidance

COMMUNICATION ELECTRONIC ATTACK

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Assess Measures of Performance (MOP)
E5	CORE	Collect Battle Damage Indicators (BDI)
E5	CORE	Conduct Battle Damage Assessments (BDA)
E4	CORE	Coordinate frequency deconflictions
E5	CORE	Develop communication Electronic Attack (EA) plans
E5	CORE	Develop communications Electronic Attack (EA) brief
E5	CORE	Develop communications Electronic Attack (EA) Concept of Operations (CONOP)
E5	CORE	Evaluate Measures of Effectiveness (MOE)
E4	CORE	Identify adversarial communications Electronic Attack (EA)
E4	CORE	Identify current communications Electronic Warfare (EW) Rules of Engagement (ROE)
E4	CORE	Perform communications Electronic Attacks (EA)
E7	CORE	Provide post-communication Electronic Attack (EA) assessments
E5	CORE	Respond to adversarial communications Electronic Attack (EA)

COMMUNICATION EXTERNALS ANALYSIS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Analyze Communication External (COMEXT) target usage
E4	CORE	Develop Communication External (COMEXT) notations
E4	CORE	Disseminate Communication External (COMEXT) reports
E4	CORE	Identify communication external notations
E4	CORE	Perform track management and target identification

GEOLOCATION

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Identify common geolocational systems
E4	CORE	Monitor Common Operational Picture (COP)
E4	CORE	Monitor distress frequencies
E4	CORE	Perform geolocation analysis
E4	CORE	Perform geolocation and radio Direction Findings (DF)
E4	CORE	Perform geolocation operations

GEOSPATIAL META-DATA ANALYSIS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Analyze collection sources
E4	CORE	Analyze common Satellite Communications (SATCOM) related elements
E4	CORE	Analyze common Ultra High Frequency/Very High Frequency/Push To Talk (UHF/VHF/PTT) communications related elements
E4	CORE	Analyze common unmanned vehicles communication related elements
E4	CORE	Analyze common wireless 802.XX series communications related elements
E4	CORE	Analyze common wireless communications related elements
E4	CORE	Analyze communication device capabilities
E4	NON-CORE	Analyze communication emitter notations
E5	NON-CORE	Analyze evolving communication technologies
E4	CORE	Identify communication emitter notations
E4	CORE	Operate Geospatial Information System (GIS) tools
E4	CORE	Operate Signals Intelligence (SIGINT) Geospatial Analysis (SGA) databases

INFORMATION OPERATIONS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Support Information Operations (IO)

REPORTING

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Combine multi-source intelligence for Signals Intelligence (SIGINT) reporting
E5	CORE	Coordinate target analysis with external units
E5	CORE	Disseminate Signals Intelligence (SIGINT) reports
E4	CORE	Draft fused Signals Intelligence (SIGINT) reports
E5	CORE	Draft post-mission reports
E4	CORE	Draft time-sensitive reports

E4	CORE	Identify reporting criteria
E5	CORE	Manage tactical reports
E4	CORE	Prepare signals analysis reports
E4	CORE	Produce area of interest briefs
E7	CORE	Supervise Critical (CRITIC) message programs

RESEARCH AND ANALYSIS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Access computer databases
E4	CORE	Assess Indication & Warning (I&W) threats
E7	CORE	Assign tasking to cryptologic resources
E5	CORE	Perform Signals Intelligence (SIGINT) fusion analysis
E6	CORE	Recommend to reconfigure signals collection/processing tools to mitigate existing shortfalls
E4	CORE	Research military Order of Battle (OOB)
E4	CORE	Research Signals Intelligence (SIGINT) Order of Battle (OOB)

RESOURCE MANAGEMENT

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E6	CORE	Identify available intelligence resources
E4	CORE	Identify information flow within the intelligence cycle
E7	CORE	Implement Signals Intelligence (SIGINT) taskings
E5	CORE	Manage cryptologic or mission databases
E7	CORE	Manage cryptologic training and education
E5	CORE	Verify mission taskings

SECURITY AND ADMINISTRATION

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Brief United States Signals Intelligence Directives (USSID)
E6	CORE	Conduct Intelligence Oversight (IO) and compliance
E4	CORE	Control access to restricted areas
E4	CORE	Destroy classified materials
E4	CORE	Document receipt of classified materials
E7	NON-CORE	Implement Disaster Recovery Plans (DRP)
E4	CORE	Implement Emergency Action Plans (EAP)
E5	CORE	Properly mark classified materials
E4	CORE	Safeguard classified materials
E4	CORE	Transport classified materials

SIGNALS ANALYSIS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Analyze computer networks
E5	CORE	Analyze digital network communications
E4	CORE	Analyze wireless communications

E4	CORE	Brief communication networks
E4	CORE	Brief transmission methods
E4	CORE	Demultiplex basic signals
E4	NON-CORE	Detect bit synchronizers

TARGET ANALYSIS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E7	CORE	Analyze target locations
E5	CORE	Assign arbitrary identifiers to target platforms
E5	CORE	Develop target folders
E5	CORE	Develop target packages
E5	CORE	Develop target profiles
E5	CORE	Develop targets in support of commander's intent
E6	CORE	Draft Command and Control Warfare (C2W) Network Oriented Data Acquisition Language (NODAL) analysis scenarios
E5	CORE	Fuse technical data to develop target communications profile
E5	CORE	Map networks
E4	CORE	Perform content analysis
E4	CORE	Perform data extractions from collection and mission databases
E4	CORE	Perform metadata analysis
E5	NON-CORE	Perform Radio Frequency (RF) propagation modeling
E4	CORE	Provide Signals Intelligence (SIGINT) support to targetteering
E5	CORE	Research network technologies
E4	CORE	Research Open Source Intelligence (OSINT)

Job Title

Communication Intelligence Collection Signals Analyst

Job Code

001077

Job Family

Computer and Mathematical

NOC

TBD

Short Title (30 Characters)

COMM INTEL COLL SIG ANALYST

Short Title (14 Characters)

CICS ANALYST

Pay Plan

Enlisted

Career Field

CTR

Other Relationships and Rules

Not applicable, based upon the NEC assigned to the job (if any).

Job Description

Communication Intelligence Collection Signals Analysts collect and conduct signals search, analysis, target identification, and reporting operations; develop, evaluate, and execute target mission plans to include exploitation and manipulation of the electromagnetic spectrum; collect and process a Signal Of Interest (SOI) employing demodulation, demultiplexing techniques, and coding theory; perform fine grain analysis and reporting of known, new, and anomalous signals, and provide locational data; research and develop signals; perform digital communications and bitstream analysis to recover signals structures and utilize internal parameters to identify SOIs; construct waveforms in support of communication electronic attack; and comply with classified information storage, transportation, and protection requirements.

DoD Relationship

Group Title

Intercept Operators (Code and Non-Code)

DoD Code

123100

O*NET Relationship

Occupation Title

Computer Programmers

SOC Code

15-1131.00

Job Family

Computer and Mathematical

Skills

Critical Thinking

Active Learning

Complex Problem Solving

Systems Analysis

Operation and Control

Reading Comprehension

Equipment Selection

Judgment and Decision Making

Monitoring

Operations Analysis

Abilities

Information Ordering

Inductive Reasoning

Oral Expression

Category Flexibility

Deductive Reasoning

Written Comprehension

Flexibility of Closure

Memorization

Control Precision

Fluency of Ideas

COLLECTIONS

Paygrade

E4

Task Type

CORE

Task Statements

Adjust antennas for optimal signals exploitation

E4

CORE

Allocate Signals Intelligence (SIGINT) collection resources

E4

CORE

Analyze intercept to identify Essential Elements of Information (EEI)

E4

CORE

Brief Signals Intelligence (SIGINT) operations

E4

CORE

Collect Signals Of Interest (SOI)

E4

CORE

Configure receivers for signals exploitation

E5

NON- CORE

Construct Signal Descriptor Files (SDF)

E5

NON-CORE

Develop scripts and programs

E4

CORE

Disseminate Indications and Warning (I&W) to tactical commanders

E4

CORE

Execute commands within various operating systems

E5

CORE

Exploit Electromagnetic (EM) spectrum

E4

CORE

Forward digitized signals

E4

CORE

Identify antennas and transmission lines

E4

CORE

Identify PROFORMA signal functions

E4

CORE

Implement cryptologic taskings

E4

CORE

Implement Signal Descriptor Files (SDF)

E5	CORE	Implement Signals Collection Plan (SCP)
E4	CORE	Monitor Signals of Interest (SOI) frequencies
E4	CORE	Operate collection systems
E5	CORE	Operate computer software for intermediate analysis
E4	CORE	Operate demodulators
E4	CORE	Operate multiple operating systems
E4	NON-CORE	Operate oscilloscopes
E4	CORE	Operate software-based analysis tools
E4	CORE	Operate spectrum analyzer
E4	NON-CORE	Operate synthesizers/generators
E4	CORE	Perform geolocation/Direction Finding (DF) of distress signals
E4	CORE	Process digital network communications
E4	NON-CORE	Process PROFORMA
E4	CORE	Provide inputs for Signals Intelligence (SIGINT) reports
E4	CORE	Record signals
E4	CORE	Select antennas for signals exploitation
E4	CORE	Select receivers for signals exploitation
E5	CORE	Supervise collection operations
E5	CORE	Supervise search and signals analysis operations
E4	CORE	Troubleshoot system equipment failures and errors
E4	CORE	Troubleshoot system software failures and errors
E4	NON-CORE	Validate frequency counters
E5	NON-CORE	Verify Signal Descriptor Files (SDF)

COMMUNICATION ELECTRONIC ATTACK

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Collect Battle Damage Indicators (BDI)
E5	CORE	Conduct Battle Damage Assessments (BDA)
E4	CORE	Coordinate frequency deconflictions
E5	CORE	Develop communication Electronic Attack (EA) plans
E5	CORE	Evaluate Measures of Effectiveness (MOE)
E4	CORE	Identify adversarial communications Electronic Attack (EA)
E4	CORE	Perform communications Electronic Attacks (EA)
E5	CORE	Respond to adversarial communications Electronic Attack (EA)

COMMUNICATION EXTERNALS ANALYSIS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Analyze Communication External (COMEXT) target usage
E4	CORE	Disseminate Communication External (COMEXT) reports
E4	CORE	Identify communication external notations
E4	CORE	Perform track management and target identification

GEOLOCATION

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Identify common geolocational systems
E4	CORE	Monitor Common Operational Picture (COP)
E4	CORE	Monitor distress frequencies
E4	CORE	Perform geolocation analysis
E4	CORE	Perform geolocation and radio Direction Findings (DF)
E4	CORE	Perform geolocation operations

GEOSPATIAL META-DATA ANALYSIS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Analyze common wireless communications related elements
E4	CORE	Analyze communication device capabilities
E4	NON-CORE	Analyze communication emitter notations
E5	NON-CORE	Analyze evolving communication technologies
E4	CORE	Identify communication emitter notations

INFORMATION OPERATIONS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Determine threat envelopes

REPORTING

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Disseminate Signals Intelligence (SIGINT) reports
E4	CORE	Draft fused Signals Intelligence (SIGINT) reports
E4	CORE	Draft time-sensitive reports
E4	CORE	Prepare signals analysis reports
E5	NON-CORE	Report advanced signals analysis

RESEARCH AND ANALYSIS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Access computer databases
E4	CORE	Assess Indication & Warning (I&W) threats
E7	CORE	Assign tasking to cryptologic resources
E6	CORE	Recommend to reconfigure signals collection/processing tools to mitigate existing shortfalls
E4	CORE	Research military Order of Battle (OOB)
E4	CORE	Research Signals Intelligence (SIGINT) Order of Battle (OOB)

RESOURCE MANAGEMENT

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E7	CORE	Implement Signals Intelligence (SIGINT) taskings

SECURITY AND ADMINISTRATION

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Brief United States Signals Intelligence Directives (USSID)
E6	CORE	Conduct Intelligence Oversight (IO) and compliance
E4	CORE	Control access to restricted areas
E4	CORE	Destroy classified materials
E4	CORE	Document receipt of classified materials
E7	NON-CORE	Implement Disaster Recovery Plans (DRP)
E4	CORE	Implement Emergency Action Plans (EAP)
E5	CORE	Properly mark classified materials
E4	CORE	Safeguard classified materials
E4	CORE	Transport classified materials

SIGNALS ANALYSIS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	NON-CORE	Analyze advanced modulation methods
E5	CORE	Analyze computer networks
E5	CORE	Analyze digital network communications
E5	NON-CORE	Analyze digital speech
E4	CORE	Analyze modems
E4	CORE	Analyze multiplexed signals
E4	CORE	Analyze multiplexing schemes
E5	CORE	Analyze pulse code formats
E4	CORE	Analyze short duration and non-communications signals
E4	CORE	Analyze signal structure
E4	CORE	Analyze waveforms
E4	CORE	Analyze wireless communications
E4	CORE	Brief communication networks
E4	CORE	Brief transmission methods
E4	CORE	Convert numbering systems
E4	CORE	Demodulate basic signals
E5	NON-CORE	Demodulate complex signals
E4	CORE	Demultiplex basic signals
E5	NON-CORE	Demultiplex complex Signals of Interest (SOI)
E4	NON-CORE	Detect bit synchronizers
E4	CORE	Detect signal anomalies from signals analysis
E5	CORE	Exploit modulation types
E4	CORE	Identify digital line coding schemes
E4	CORE	Identify elements of modulation theory
E4	CORE	Identify error detection and correction schemes

E4	CORE	Identify Linear Recursive Sequences (LRS)
E5	NON-CORE	Perform advanced analysis on bit stream
E4	CORE	Perform bit stream analysis

TARGET ANALYSIS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Develop targets in support of commander's intent
E6	CORE	Draft Command and Control Warfare (C2W) Network Oriented Data Acquisition Language (NODAL) analysis scenarios
E5	CORE	Fuse technical data to develop target communications profile
E4	CORE	Perform data extractions from collection and mission databases
E5	CORE	Research network technologies
E4	CORE	Research Open Source Intelligence (OSINT)

Job Title

Collection Operations Manager

Job Code

001082

Job Family

Management

NOC

TBD

Short Title (30 Characters)

COLLECTION OPERATIONS MANAGER

Short Title (14 Characters)

COLL OPS MGR

Pay Plan

Enlisted

Career Field

CTR

Other Relationships and Rules

Not applicable, based upon the NEC assigned to the job (if any).

Job Description

Collection Operations Managers determine reportability and urgency of Signals Intelligence (SIGINT) information; select appropriate supporting information for inclusion in a SIGINT report and comply with classified information and protection requirements in the release of sanitized SIGINT reports; validate SIGINT and mission reports; analyze SIGINT within target context; develop and implement a SIGINT strategy from which to base a report and select an appropriate format; develop relationships between mission requirements, resource management, operating procedures, and communications target procedural identification techniques; manage signals collection, Request for Information (RFI), analysis, reporting, special intelligence communication networks, and assigned personnel; optimize SIGINT collection resources and adjust tasking as required; develop and execute courses of action in response to consumer feedback; comply with classified information storage, transportation, and protection requirements; and implement emergency action plans.

DoD Relationship

Group Title

Intercept Operators (Code and Non-Code)

DoD Code

123100

O*NET Relationship

Occupation Title

Computer and Information Systems Managers

SOC Code

11-3021.00

Job Family

Management

Skills

Critical Thinking

Coordination

Management of Material Resources

Complex Problem Solving

Reading Comprehension

Monitoring

Active Learning

Judgment and Decision Making

Operations Analysis

Equipment Selection

Abilities

Deductive Reasoning

Information Ordering

Speed of Closure

Written Expression

Inductive Reasoning

Written Comprehension

Category Flexibility

Fluency of Ideas

Memorization

Oral Expression

COLLECTIONS

Paygrade

E6

Task Type

CORE

Task Statements

Adjust cryptologic tasking

E4

CORE

Allocate Signals Intelligence (SIGINT) collection resources

E4

CORE

Brief Signals Intelligence (SIGINT) operations

E7

CORE

Compile collection metrics

E4

CORE

Conduct Communication Security (COMSEC) monitoring

E5

CORE

Coordinate mission operations

E4

CORE

Correlate case notations

E4

CORE

Disseminate Indications and Warning (I&W) to tactical commanders

E5

CORE

Evaluate analysis and reporting operations

E6

CORE

Evaluate cryptologic operations

E4

CORE

Identify PROFORMA signal functions

E4

CORE

Implement cryptologic taskings

E6

CORE

Manage collection of Signals of Interest (SOI)

E6

CORE

Manage collection system operations and configuration

E6

CORE

Manage Communication Security (COMSEC) monitoring

E7	CORE	Manage dissemination of Signals Intelligence (SIGINT) reports
E6	CORE	Manage Own Force Monitoring (OFM)
E7	CORE	Manage the exploitation of the Electromagnetic (EM) spectrum
E4	CORE	Perform geolocation/Direction Finding (DF) of distress signals
E5	CORE	Supervise collection operations
E5	CORE	Supervise search and signals analysis operations
E6	CORE	Verify existing directives and guidance

COMMUNICATION ELECTRONIC ATTACK

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Assess Measures of Performance (MOP)
E4	CORE	Coordinate frequency deconflictions
E5	CORE	Develop communication Electronic Attack (EA) plans
E5	CORE	Develop communications Electronic Attack (EA) brief
E5	CORE	Develop communications Electronic Attack (EA) Concept of Operations (CONOP)
E5	CORE	Evaluate Measures of Effectiveness (MOE)
E4	CORE	Identify adversarial communications Electronic Attack (EA)
E4	CORE	Identify current communications Electronic Warfare (EW) Rules of Engagement (ROE)
E7	CORE	Provide post-communication Electronic Attack (EA) assessments
E5	CORE	Respond to adversarial communications Electronic Attack (EA)

COMMUNICATION EXTERNALS ANALYSIS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Disseminate Communication External (COMEXT) reports
E4	CORE	Perform track management and target identification
E7	CORE	Verify Communication External (COMEXT) report dissemination

GEOLOCATION

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E6	CORE	Manage geolocation operations
E4	CORE	Monitor Common Operational Picture (COP)

INFORMATION OPERATIONS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E7	CORE	Coordinate own-force Information Operations (IO) capabilities
E7	CORE	Coordinate Signals Intelligence (SIGINT) Indications and Warnings (I&W)
E5	CORE	Determine threat envelopes
E7	CORE	Integrate Signals Intelligence (SIGINT) resources

REPORTING

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Coordinate target analysis with external units
E5	CORE	Draft post-mission reports

E4	CORE	Draft time-sensitive reports
E7	CORE	Establish reporting criteria
E5	CORE	Manage tactical reports
E7	CORE	Supervise Critical (CRITIC) message programs

RESEARCH AND ANALYSIS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Access computer databases
E4	CORE	Assess Indication & Warning (I&W) threats
E7	CORE	Assign tasking to cryptologic resources
E5	CORE	Perform Signals Intelligence (SIGINT) fusion analysis
E4	CORE	Research military Order of Battle (OOB)
E4	CORE	Research Signals Intelligence (SIGINT) Order of Battle (OOB)

RESOURCE MANAGEMENT

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E6	CORE	Identify available intelligence resources
E6	CORE	Identify collection requirements
E4	CORE	Identify information flow within the intelligence cycle
E7	CORE	Implement Signals Intelligence (SIGINT) taskings
E5	CORE	Manage cryptologic or mission databases
E7	CORE	Manage cryptologic training and education
E5	CORE	Verify mission taskings

SECURITY AND ADMINISTRATION

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Brief United States Signals Intelligence Directives (USSID)
E6	CORE	Conduct Intelligence Oversight (IO) and compliance
E4	CORE	Control access to restricted areas
E4	CORE	Destroy classified materials
E4	CORE	Document receipt of classified materials
E7	NON-CORE	Implement Disaster Recovery Plans (DRP)
E4	CORE	Implement Emergency Action Plans (EAP)
E5	CORE	Properly mark classified materials
E4	CORE	Safeguard classified materials
E4	CORE	Transport classified materials

SIGNALS ANALYSIS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Brief communication networks
E4	CORE	Brief transmission methods
E6	CORE	Manage signals analysis

TARGET ANALYSIS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E7	CORE	Analyze target locations
E5	CORE	Develop target packages
E5	CORE	Develop target profiles
E5	CORE	Develop targets in support of commander's intent
E6	CORE	Draft Command and Control Warfare (C2W) Network Oriented Data Acquisition Language (NODAL) analysis scenarios
E5	CORE	Fuse technical data to develop target communications profile
E4	CORE	Provide Signals Intelligence (SIGINT) support to targetteering
E5	CORE	Research network technologies
E4	CORE	Research Open Source Intelligence (OSINT)

Job Title

Collection Operator

Job Code

002746

Job Family

Computer and Mathematical

NOC

TBD

Short Title (30 Characters)

COLLECTION OPERATOR

Short Title (14 Characters)

COLL OPERATOR

Pay Plan

Enlisted

Career Field

CTR

Other Relationships and Rules

Not applicable, based upon the NEC assigned to the job (if any).

Job Description

Collection Operators operate collection systems to intercept and analyze signals of interest for the purpose of identification, exploitation, and reporting in support of community intelligence requirements; perform own force monitoring to prevent adversary from utilizing friendly force emissions; identify and track adversary geographic locations to support target identification and military operations; perform information operations to deceive, degrade, or deny adversaries electronic sensors; and comply with emergency action plans, classified information storage, transportation, and protection requirements of classified materials.

DoD Relationship

Group Title

Intercept Operators (Code and Non-Code)

DoD Code

123100

O*NET Relationship

Occupation Title

Information Security Analysts

SOC Code

15-1122.00

Job Family

Computer and Mathematical

Skills

Critical Thinking

Complex Problem Solving

Operations Analysis

Equipment Selection

Management of Material Resources

Operation and Control

Science

Active Learning

Coordination

Systems Analysis

Abilities

Information Ordering

Inductive Reasoning

Memorization

Written Expression

Fluency of Ideas

Category Flexibility

Deductive Reasoning

Speed of Closure

Flexibility of Closure

Selective Attention

COLLECTIONS

Paygrade

E4

Task Type

CORE

Task Statements

Configure receivers for signals exploitation

E4

CORE

Connect equipment for optimal signals collection

E5

NON- CORE

Construct Signal Descriptor Files (SDF)

E4

CORE

Correlate case notations

E5

CORE

Evaluate analysis and reporting operations

E6

CORE

Evaluate cryptologic operations

E4

CORE

Execute commands within various operating systems

E5

CORE

Exploit Electromagnetic (EM) spectrum

E4

CORE

Forward digitized signals

E4

CORE

Identify antennas and transmission lines

E4

CORE

Identify PROFORMA signal functions

E4

CORE

Implement cryptologic taskings

COMMUNICATION ELECTRONIC ATTACK

Paygrade

E5

Task Type

CORE

Task Statements

Evaluate Measures of Effectiveness (MOE)

E4

CORE

Identify adversarial communications Electronic Attack (EA)

E4	CORE	Identify current communications Electronic Warfare (EW) Rules of Engagement (ROE)
E4	CORE	Perform communications Electronic Attacks (EA)

COMMUNICATION EXTERNALS ANALYSIS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Develop Communication External (COMEXT) notations
E4	CORE	Disseminate Communication External (COMEXT) reports
E4	CORE	Identify communication external notations
E7	CORE	Verify Communication External (COMEXT) report dissemination

GEOLOCATION

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Identify common geolocational systems
E4	CORE	Perform geolocation operations

GEOSPATIAL META-DATA ANALYSIS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Identify communication emitter notations

INFORMATION OPERATIONS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E7	CORE	Coordinate Signals Intelligence (SIGINT) Indications and Warnings (I&W)

REPORTING

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Coordinate target analysis with external units
E4	CORE	Draft fused Signals Intelligence (SIGINT) reports
E5	CORE	Draft post-mission reports
E4	CORE	Draft time-sensitive reports
E7	CORE	Establish reporting criteria
E4	CORE	Identify reporting criteria

RESOURCE MANAGEMENT

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E6	CORE	Identify available intelligence resources
E6	CORE	Identify collection requirements
E4	CORE	Identify information flow within the intelligence cycle

SECURITY AND ADMINISTRATION

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E6	CORE	Conduct Intelligence Oversight (IO) and compliance
E4	CORE	Control access to restricted areas
E4	CORE	Document receipt of classified materials

SIGNALS ANALYSIS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Convert numbering systems
E4	CORE	Demodulate basic signals
E5	NON-CORE	Demodulate complex signals
E5	NON-CORE	Demultiplex complex Signals of Interest (SOI)
E5	CORE	Exploit modulation types
E4	CORE	Identify digital line coding schemes
E4	CORE	Identify elements of modulation theory
E4	CORE	Identify error detection and correction schemes
E4	CORE	Identify Linear Recursive Sequences (LRS)

TARGET ANALYSIS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E6	CORE	Draft Command and Control Warfare (C2W) Network Oriented Data Acquisition Language (NODAL) analysis scenarios
E5	CORE	Fuse technical data to develop target communications profile
E5	CORE	Map networks