

# CHAPTER 67



## INFORMATION SYSTEMS TECHNICIAN SUBMARINES (ITS)

NAVPERS 18068F-67J

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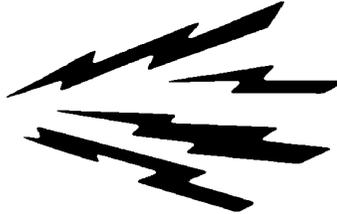
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NAVY ENLISTED OCCUPATIONAL STANDARDS  
FOR  
INFORMATION SYSTEMS TECHNICIAN SUBMARINES (ITS)



SCOPE OF RATING

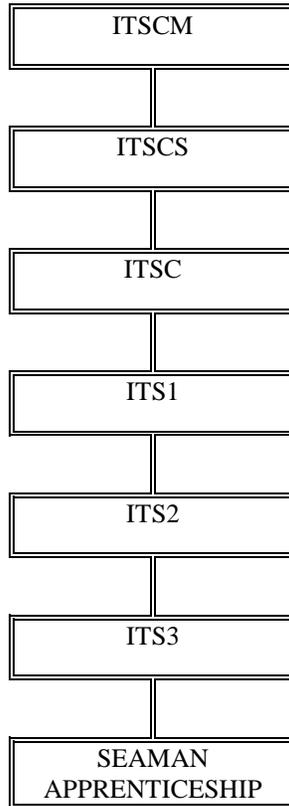
Information System Technician Submarines (ITS) perform core and specialty functions of communications operations, message processing, network administration, and cybersecurity; secure, defend and preserve data, networks, net-centric capabilities, and other designated systems; implement security controls and defensive counter-measures; establish, monitor, and maintain Radio Frequency (RF) communications systems; perform spectrum management to support Joint, Fleet, and tactical communications; handle, store, and retrieve incoming and outgoing messages; build, configure, deploy, operate, and maintain information technology, networks and capabilities; perform network system administration, maintenance and training; manage, plan and coordinate unit-level Information Systems Security (ISS) and integration across platforms, fleets, and services; operate and maintain electronic equipment used for detection, tracking, recognition and identification, communications, cryptographic operations, communication security, and Electronic Warfare Systems (EW); operate and maintain General Purpose Test Equipment (GPTE) and auxiliary equipment; and ensure the proper security, handling, accounting, reporting, and control of Communications Security (COMSEC) materials, systems, and equipment.

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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 67.

## 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 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 Title****Communications Specialist****Job Code****002789****Job Family**

Computer and Mathematical

**NOC**

TBD

**Short Title (30 Characters)**

COMMUNICATIONS SPECIALIST

**Short Title (14 Characters)**

COMMS SPEC

**Pay Plan**

Enlisted

**Career Field**

ITS

**Other Relationships and Rules**

NEC TXXX series and other NECs as assigned

**Job Description**

Communications Specialists perform core and specialty functions of network administration within physical and virtual environments; troubleshoot and assist with the use of computer hardware and software including printers and software applications; conduct system backups and restores; install applications and peripherals; monitor and protect network computer systems by detecting and reporting threats of network intrusion and unauthorized access; protect information from and recover information after loss or damage using backups, virus detection, and recovery software procedures; utilize Information Assurance (IA) and Computer Network Defense (CND) programs; and perform network accreditations and certifications; operate communications equipment for routing voice and data Internet Protocol (IP) communications to and from external sources; generate, transmit, and account for naval messages; and auxiliary equipment; operate, monitor, and control Information Systems (IS) in support of the world-wide telecommunications network; and stand watch on related equipment.

**DoD Relationship****Group Title**

ADP Computers, General

**DoD Code**

115000

**O\*NET Relationship****Occupation Title**

Computer Network Support Specialists

**SOC Code**

15-1152.00

**Job Family**

Computer and Mathematical

**Skills***Operation and Control**Equipment Maintenance**Troubleshooting**Operation Monitoring**Repairing**Systems Analysis**Systems Evaluation**Reading Comprehension**Complex Problem Solving**Installation***Abilities***Information Ordering**Written Comprehension**Deductive Reasoning**Problem Sensitivity**Inductive Reasoning**Finger Dexterity**Written Expression**Flexibility of Closure**Oral Expression**Selective Attention***COMMUNICATIONS SYSTEM OPERATIONS****Paygrade****Task Type****Task Statements**

E4	CORE	Communicate information on in-port circuits
E5	CORE	Configure radio workstations
E4	CORE	Control access to cryptographic usage areas
E4	CORE	Destroy cryptographic keying materials
E4	CORE	Inventory cryptographic keying materials
E4	CORE	Load cryptographic keying materials
E4	CORE	Receive cryptographic keying materials
E4	CORE	Receive information using deployable antenna systems
E4	CORE	Store Communications Security (COMSEC) material
E4	CORE	Transmit information using emergency antenna systems
E4	CORE	Transmit information using Extremely High Frequency (EHF) system
E4	CORE	Transmit information using Low Frequency/Medium Frequency/High Frequency (LF/MF/HF) system
E4	CORE	Transmit information using Super High Frequency (SHF) system
E4	CORE	Transmit information using Ultra High Frequency (UHF) system
E4	CORE	Transmit information using Very High Frequency (VHF) system

## **EQUIPMENT MAINTENANCE**

<b><u>Paygrade</u></b>	<b><u>Task Type</u></b>	<b><u>Task Statements</u></b>
E4	CORE	Transmit information using Very Low Frequency (VLF) system
E4	CORE	Maintain antenna systems
E5	CORE	Maintain Extremely High Frequency (EHF) systems
E5	CORE	Maintain Low Frequency/Medium Frequency/High Frequency (LF/MF/HF) systems
E4	CORE	Maintain Super High Frequency (SHF) systems
E5	CORE	Maintain Ultra High Frequency (UHF) systems
E4	CORE	Maintain Very High Frequency (VHF) systems
E5	CORE	Maintain Very Low Frequency (VLF) systems
E5	CORE	Recover systems using Disaster Recovery Plan (DRP)
E5	CORE	Troubleshoot antenna systems
E5	CORE	Troubleshoot Extremely High Frequency (EHF) systems
E5	CORE	Troubleshoot Low Frequency/Medium Frequency/High Frequency (LF/MF/HF) systems
E5	CORE	Troubleshoot Super High Frequency (SHF) systems
E5	CORE	Troubleshoot Ultra High Frequency (UHF) systems
E5	CORE	Troubleshoot Very High Frequency (VHF) systems
E5	CORE	Troubleshoot Very Low Frequency (VLF) systems

## **INFORMATION ASSURANCE**

<b><u>Paygrade</u></b>	<b><u>Task Type</u></b>	<b><u>Task Statements</u></b>
E4	CORE	Analyze Information Systems Security (ISS) requirements
E5	CORE	Implement system vulnerability patches
E4	CORE	Inventory Communications Security (COMSEC) equipment
E5	CORE	Inventory Top Secret (TS) / Sensitive Compartmented Information (SCI) materials
E4	CORE	Maintain Information Systems Security (ISS) logs
E4	CORE	Report Information Systems Security (ISS) incidents
E4	CORE	Report Information Systems Security (ISS) violations
E4	CORE	Report Information Systems Security (ISS) vulnerabilities
E4	CORE	Scan Information Systems (IS) for vulnerabilities
E4	CORE	Verify Information Systems Security (ISS) software programs

## **NETWORK ADMINISTRATION**

<b><u>Paygrade</u></b>	<b><u>Task Type</u></b>	<b><u>Task Statements</u></b>
E4	CORE	Administer computer Information System (IS) user accounts
E5	CORE	Analyze Information System (IS) trends (e.g., hardware, software, network, etc.)
E4	CORE	Back up Information Systems (IS)
E4	CORE	Draft Naval messages
E4	CORE	Maintain domain system accounts
E4	CORE	Maintain Information Systems (IS) assets
E4	CORE	Maintain intranet websites

### NETWORK ADMINISTRATION (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Maintain network databases
E4	CORE	Maintain Program of Record (POR) applications (e.g., Electronic Shift Operations Management System (ESOMS), Web Advanced Technical Information Support System (WeBATIS), etc.)
E5	CORE	Maintain Virtual Private Networks (VPN)
E5	CORE	Perform system file maintenance
E4	CORE	Prepare network status reports
E4	CORE	Update computer Information System (IS) anti-virus definitions
E5	CORE	Update local media and technical libraries (e.g., Submarine on Board Training (SOBT), Advanced Technical Information System (ATIS), etc.)
E5	NON-CORE	Update network security tools
E4	CORE	Update Program of Record (POR) systems

### NETWORK MANAGEMENT

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Analyze audit logs
E4	CORE	Archive computer Information System (IS) logs
E4	CORE	Establish Information System (IS) off-hull connectivity
E4	CORE	Inventory computer Information System (IS) assets
E7	CORE	Maintain network documentation (e.g., Systems Authorization Access Request-Navy (SAAR-N), Privileged Access Agreement (PAA), etc.)
E6	CORE	Manage Information Systems (IS) file and folder permissions
E4	CORE	Update trouble tickets

### NETWORK OPERATIONS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Configure anti-virus software
E4	CORE	Configure Information Systems (IS) application software
E4	CORE	Configure Information Systems (IS) network hardware
E4	CORE	Configure peripherals
E4	CORE	Configure print services
E5	CORE	Configure server Operating System (OS) software
E4	CORE	Configure storage devices
E4	CORE	Configure workstation network connectivity
E4	CORE	Configure workstation Operating System (OS) software
E4	CORE	Create workstation images
E4	CORE	Document server Operating System (OS) errors
E4	CORE	Document trouble tickets
E5	CORE	Install network components
E4	CORE	Install network software
E4	CORE	Install Operating Systems (OS)

**NETWORK OPERATIONS (CONT'D)**

<b><u>Paygrade</u></b>	<b><u>Task Type</u></b>	<b><u>Task Statements</u></b>
E4	CORE	Install peripherals
E4	CORE	Install storage devices
E5	CORE	Install virtual network environments
E4	CORE	Load image software
E4	CORE	Recover computer Information Systems (IS)
E4	CORE	Remove storage devices
E4	CORE	Repair client software
E4	CORE	Repair computer Information Systems (IS)
E4	CORE	Repair intranet websites
E4	CORE	Repair network components (e.g., Local Area Network (LAN) cables, modules, etc.)
E4	NON-CORE	Repair peripherals
E5	CORE	Repair Program of Record (POR) applications (e.g., Electronic Shift Operations Management System (ESOMS), Web Advanced Technical Information Support System (WeBATIC), etc.)
E5	CORE	Repair virtual network environments
E5	NON-CORE	Set up Channel Service Units/Data Service Units (CSU/DSU) for Fiber Distributed Data Interface (FDDI) operations
E4	CORE	Shut down computer Information Systems (IS)
E4	CORE	Start up computer Information Systems (IS)
E4	CORE	Transfer files (e.g., Trivial File Transfer Protocol (TFTP), Secure Shell Protocol (SSP), etc.)
E4	CORE	Troubleshoot client applications
E4	CORE	Troubleshoot computer Information Systems (IS)
E4	CORE	Troubleshoot file and folder access problems
E4	CORE	Troubleshoot intranet websites
E5	CORE	Troubleshoot network components
E4	CORE	Troubleshoot networks
E4	CORE	Troubleshoot Operating Systems (OS)
E4	CORE	Troubleshoot peripherals
E5	CORE	Troubleshoot Program of Record (POR) applications (e.g., Electronic Shift Operations Management System (ESOMS), Web Advanced Technical Information Support System (WeBATIC), etc.)
E4	CORE	Troubleshoot storage devices
E5	CORE	Troubleshoot system hardware
E5	CORE	Troubleshoot virtual network environments
E4	CORE	Troubleshoot workstation network connectivity
E5	CORE	Update virtual network environments
E5	CORE	Verify delivered Information Systems (IS) functionality
E5	CORE	Verify delivered network components functionality
E5	CORE	Verify delivered system hardware functionality

**Job Title****Communications Technician****Job Code****002790****Job Family**

Computer and Mathematical

**NOC**

TBD

**Short Title (30 Characters)**

COMMUNICATIONS TECHNICIAN

**Short Title (14 Characters)**

COMMS TECH

**Pay Plan**

Enlisted

**Career Field**

ITS

**Other Relationships and Rules**

NEC TXXX series and other NECs as assigned

**Job Description**

Communications Technicians perform core and specialty functions of network administration within physical and virtual environments; troubleshoot and assist with the use of computer hardware and software including printers and software applications; conduct system backups and restores; install applications and peripherals; monitor and protect network computer systems by detecting and reporting threats of network intrusion and unauthorized access; protect information from and recover information after loss or damage using backups, virus detection, and recovery software procedures; utilize Information Assurance (IA) and Computer Network Defense (CND) programs; conduct threat and vulnerability assessments; and perform network accreditations and certifications; operate communications equipment for routing voice and data Internet Protocol (IP) communications to and from external sources; generate, transmit, and account for naval messages; and auxiliary equipment; operate, maintain, monitor, and control Information Systems (IS) in support of the worldwide telecommunications network; and stand watch on related equipment.

**DoD Relationship***Group Title*

ADP Computers, General

*DoD Code*

115000

**O\*NET Relationship***Occupation Title*

Network and Computer Systems Administrators

*SOC Code*

15-1142.00

*Job Family*

Computer and Mathematical

**Skills***Operation and Control**Equipment Maintenance**Repairing**Systems Analysis**Troubleshooting**Operation Monitoring**Reading Comprehension**Systems Evaluation**Critical Thinking**Management of Material Resources***Abilities***Information Ordering**Written Comprehension**Deductive Reasoning**Problem Sensitivity**Inductive Reasoning**Finger Dexterity**Written Expression**Selective Attention**Oral Expression**Flexibility of Closure***COMMUNICATIONS SYSTEM OPERATIONS****Paygrade****Task Type****Task Statements**

E4

CORE

Communicate information on in-port circuits

E5

CORE

Configure radio workstations

E4

CORE

Control access to cryptographic usage areas

E4

CORE

Destroy cryptographic keying materials

E5

CORE

Develop communication employment plans

E4

CORE

Inventory cryptographic keying materials

E4

CORE

Load cryptographic keying materials

E6

CORE

Manage Electronic Key Management System (EKMS) accounts

E4

CORE

Receive cryptographic keying materials

E4

CORE

Receive information using deployable antenna systems

E4

CORE

Store Communications Security (COMSEC) material

E6

CORE

Supervise Electronic Key Management System (EKMS) users

E4

CORE

Transmit information using emergency antenna systems

E4

CORE

Transmit information using Extremely High Frequency (EHF) system

**COMMUNICATIONS SYSTEM OPERATIONS (CONT'D)**

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Transmit information using Low Frequency/Medium Frequency/High Frequency (LF/MF/HF) system
E4	CORE	Transmit information using Super High Frequency (SHF) system
E4	CORE	Transmit information using Ultra High Frequency (UHF) system
E4	CORE	Transmit information using Very High Frequency (VHF) system
E4	CORE	Transmit information using Very Low Frequency (VLF) system

**EQUIPMENT MAINTENANCE**

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Maintain antenna systems
E5	CORE	Maintain Extremely High Frequency (EHF) systems
E5	CORE	Maintain Low Frequency/Medium Frequency/High Frequency (LF/MF/HF) systems
E4	CORE	Maintain Super High Frequency (SHF) systems
E5	CORE	Maintain Ultra High Frequency (UHF) systems
E4	CORE	Maintain Very High Frequency (VHF) systems
E5	CORE	Maintain Very Low Frequency (VLF) systems
E5	CORE	Recover systems using Disaster Recovery Plan (DRP)
E5	CORE	Repair antenna systems
E5	CORE	Repair Extremely High Frequency (EHF) systems
E5	CORE	Repair Low Frequency/Medium Frequency/High Frequency (LF/MF/HF) systems
E5	CORE	Repair Super High Frequency (SHF) systems
E5	CORE	Repair Ultra High Frequency (UHF) systems
E5	CORE	Repair Very High Frequency (VHF) systems
E5	CORE	Repair Very Low Frequency (VLF) systems
E6	CORE	Supervise mast and antenna maintenance
E5	CORE	Troubleshoot antenna systems
E5	CORE	Troubleshoot Extremely High Frequency (EHF) systems
E5	CORE	Troubleshoot Low Frequency/Medium Frequency/High Frequency (LF/MF/HF) systems
E5	CORE	Troubleshoot Super High Frequency (SHF) systems
E5	CORE	Troubleshoot Ultra High Frequency (UHF) systems
E5	CORE	Troubleshoot Very High Frequency (VHF) systems
E5	CORE	Troubleshoot Very Low Frequency (VLF) systems

**INFORMATION ASSURANCE**

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Analyze Information Systems Security (ISS) requirements
E5	CORE	Implement system vulnerability patches
E4	CORE	Inventory Communications Security (COMSEC) equipment
E5	CORE	Inventory Top Secret (TS) / Sensitive Compartmented Information (SCI) materials

### INFORMATION ASSURANCE (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Maintain Information Systems Security (ISS) logs
E4	CORE	Report Information Systems Security (ISS) incidents
E4	CORE	Report Information Systems Security (ISS) violations
E4	CORE	Report Information Systems Security (ISS) vulnerabilities
E4	CORE	Scan Information Systems (IS) for vulnerabilities
E4	CORE	Verify Information Systems Security (ISS) software programs

### NETWORK ADMINISTRATION

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Administer computer Information System (IS) user accounts
E5	CORE	Analyze Information System (IS) trends (e.g., hardware, software, network, etc.)
E7	CORE	Approve network topology plans
E4	CORE	Back up Information Systems (IS)
E6	CORE	Develop Emergency Action Plans (EAP)
E6	CORE	Develop Emergency Destruction Plans (EDP)
E4	CORE	Draft Naval messages
E4	CORE	Maintain domain system accounts
E4	CORE	Maintain Information Systems (IS) assets
E4	CORE	Maintain intranet websites
E4	CORE	Maintain network databases
E4	CORE	Maintain Program of Record (POR) applications (e.g., Electronic Shift Operations Management System (ESOMS), Web Advanced Technical Information Support System (WeBATIS), etc.)
E5	CORE	Maintain Top Secret (TS) / Sensitive Compartmented Information (SCI) inventories
E5	CORE	Maintain Virtual Private Networks (VPN)
E5	CORE	Perform system file maintenance
E4	CORE	Prepare network status reports
E6	CORE	Update computer configuration documentation
E4	CORE	Update computer Information System (IS) anti-virus definitions
E5	CORE	Update local media and technical libraries (e.g., Submarine on Board Training (SOBT), Advanced Technical Information System (ATIS), etc.)
E5	NON-CORE	Update network security tools
E4	CORE	Update Program of Record (POR) systems

### NETWORK MANAGEMENT

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Analyze audit logs
E5	CORE	Apply router Access Control Lists (ACL)
E4	CORE	Archive computer Information System (IS) logs
E5	NON-CORE	Design intranet websites
E5	CORE	Draft network topology diagrams

### NETWORK MANAGEMENT (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Establish Information System (IS) off-hull connectivity
E4	CORE	Inventory computer Information System (IS) assets
E6	CORE	Maintain domain backup policies
E7	CORE	Maintain network documentation (e.g., Systems Authorization Access Request-Navy (SAAR-N), Privileged Access Agreement (PAA), etc.)
E6	CORE	Manage Information Systems (IS) file and folder permissions
E6	CORE	Manage network databases
E6	CORE	Manage network firewall policies
E6	CORE	Prepare disaster recovery contingency plans
E4	CORE	Update trouble tickets

### NETWORK OPERATIONS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Configure anti-virus software
E6	CORE	Configure group policy objects
E4	CORE	Configure Information Systems (IS) application software
E4	CORE	Configure Information Systems (IS) network hardware
E5	CORE	Configure network audit logs
E4	CORE	Configure peripherals
E4	CORE	Configure print services
E5	CORE	Configure server based applications (e.g., Threat Management Gateway (TMG), Electronic Shift Operations Management System (ESOMS), etc.)
E5	CORE	Configure server Operating System (OS) software
E4	CORE	Configure storage devices
E4	CORE	Configure workstation network connectivity
E4	CORE	Configure workstation Operating System (OS) software
E5	CORE	Construct networks
E4	CORE	Create workstation images
E4	CORE	Document server Operating System (OS) errors
E4	CORE	Document trouble tickets
E5	CORE	Install network components
E4	CORE	Install network software
E4	CORE	Install Operating Systems (OS)
E4	CORE	Install peripherals
E4	CORE	Install storage devices
E5	CORE	Install virtual network environments
E4	CORE	Load image software
E4	CORE	Recover computer Information Systems (IS)
E4	CORE	Remove storage devices
E4	CORE	Repair client software

### **NETWORK OPERATIONS (CONT'D)**

<b><u>Paygrade</u></b>	<b><u>Task Type</u></b>	<b><u>Task Statements</u></b>
E4	CORE	Repair computer Information Systems (IS)
E6	CORE	Repair databases
E4	CORE	Repair intranet websites
E4	CORE	Repair network components (e.g., Local Area Network (LAN) cables, modules, etc.)
E4	NON-CORE	Repair peripherals
E5	CORE	Repair Program of Record (POR) applications (e.g., Electronic Shift Operations Management System (ESOMS), Web Advanced Technical Information Support System (WeBATIS), etc.)
E5	CORE	Repair virtual network environments
E5	NON-CORE	Set up Channel Service Units/Data Service Units (CSU/DSU) for Fiber Distributed Data Interface (FDDI) operations
E4	CORE	Shut down computer Information Systems (IS)
E4	CORE	Start up computer Information Systems (IS)
E4	CORE	Transfer files (e.g., Trivial File Transfer Protocol (TFTP), Secure Shell Protocol (SSP), etc.)
E4	CORE	Troubleshoot client applications
E4	CORE	Troubleshoot computer Information Systems (IS)
E6	CORE	Troubleshoot databases
E4	CORE	Troubleshoot file and folder access problems
E4	CORE	Troubleshoot intranet websites
E5	CORE	Troubleshoot network components
E4	CORE	Troubleshoot networks
E4	CORE	Troubleshoot Operating Systems (OS)
E4	CORE	Troubleshoot peripherals
E5	CORE	Troubleshoot Program of Record (POR) applications (e.g., Electronic Shift Operations Management System (ESOMS), Web Advanced Technical Information Support System (WeBATIS), etc.)
E4	CORE	Troubleshoot storage devices
E5	CORE	Troubleshoot system hardware
E5	CORE	Troubleshoot virtual network environments
E4	CORE	Troubleshoot workstation network connectivity
E5	CORE	Update virtual network environments
E5	CORE	Verify delivered Information Systems (IS) functionality
E5	CORE	Verify delivered network components functionality
E5	CORE	Verify delivered system hardware functionality

**Job Title****Communications Manager****Job Code****002791****Job Family**  
Management**NOC**  
TBD**Short Title (30 Characters)**  
COMMUNICATIONS MANAGER**Short Title (14 Characters)**  
COMMS MANAGER**Pay Plan**  
Enlisted**Career Field**  
ITS**Other Relationships and Rules**  
NEC TXXX series and other NECs as assigned**Job Description**

Communications Managers assess communication training, audit communication records, and coordinate communication maintenance; account for all transmitted and received message traffic; coordinate communication equipment modifications; review naval correspondence; develop communications system employment plans and shipboard instructions; prepare communications emergency destruction plans; perform Communication Security (COMSEC) managerial operations; verify communication plans; monitor maintenance quality control; they may also plan, coordinate, and manage unit-level Information Systems (IS) security and integration across platforms, fleets, and services; approve policies for and direct Information Assurance (IA) programs; manage and implement IS security countermeasures and network security programs; develop and review IS security assessment and authorization packages; plan and prepare for network expansions and upgrades; manage administrative functions and security procedures governing the special security program; may serve as unit Information Systems Security Manager (ISSM) or unit Systems Administrator (SYSADMIN).

**DoD Relationship**

<u>Group Title</u>	<u>DoD Code</u>
ADP Computers, General	115000

**O\*NET Relationship**

<u>Occupation Title</u>	<u>SOC Code</u>	<u>Job Family</u>
Computer and Information Systems Managers	11-3021.00	Management

**Skills**

Operation and Control  
Critical Thinking  
Writing  
Management of Material Resources  
Reading Comprehension  
Systems Evaluation  
Judgment and Decision Making  
Complex Problem Solving  
Quality Control Analysis  
Coordination

**Abilities**

Information Ordering  
Deductive Reasoning  
Written Comprehension  
Problem Sensitivity  
Inductive Reasoning  
Written Expression  
Category Flexibility  
Flexibility of Closure  
Selective Attention  
Auditory Attention

**COMMUNICATIONS SYSTEM OPERATIONS**

<b>Paygrade</b>	<b>Task Type</b>	<b>Task Statements</b>
E4	CORE	Control access to cryptographic usage areas
E4	CORE	Destroy cryptographic keying materials
E5	CORE	Develop communication employment plans
E4	CORE	Inventory cryptographic keying materials
E4	CORE	Load cryptographic keying materials
E6	CORE	Manage Electronic Key Management System (EKMS) accounts
E4	CORE	Receive cryptographic keying materials
E4	CORE	Store Communications Security (COMSEC) material
E6	CORE	Supervise Electronic Key Management System (EKMS) users

**EQUIPMENT MAINTENANCE**

<b>Paygrade</b>	<b>Task Type</b>	<b>Task Statements</b>
E5	CORE	Recover systems using Disaster Recovery Plan (DRP)
E6	CORE	Supervise mast and antenna maintenance

## **INFORMATION ASSURANCE**

<b><u>Paygrade</u></b>	<b><u>Task Type</u></b>	<b><u>Task Statements</u></b>
E4	CORE	Analyze Information Systems Security (ISS) requirements
E7	CORE	Draft electronic spillage response reports
E6	CORE	Draft Information Systems Security (ISS) directives (e.g., policies, plans, instructions, Standard Operating Procedures (SOP), etc.)
E7	CORE	Evaluate Information Systems Security (ISS) incidents
E7	CORE	Evaluate Information Systems Security (ISS) violations
E7	CORE	Evaluate Information Systems Security (ISS) vulnerabilities
E7	CORE	Evaluate system vulnerabilities
E7	CORE	Implement Information Systems Security (ISS) directives (e.g., policies, plans, instructions, Standard Operating Procedures (SOP), etc.)
E4	CORE	Inventory Communications Security (COMSEC) equipment
E5	CORE	Inventory Top Secret (TS) / Sensitive Compartmented Information (SCI) materials
E7	CORE	Maintain Information Systems Security (ISS) assessment and authorization documentation
E7	CORE	Manage electronic spillage response operations
E7	CORE	Manage Information Security (INFOSEC) incident reporting processes
E7	CORE	Manage Information Security Systems (ISS) programs
E7	CORE	Report Information Security (INFOSEC) compliance
E6	CORE	Update Information Systems Security (ISS) directives (e.g., policies, plans, instructions, Standard Operating Procedures (SOP), etc.)

## **NETWORK ADMINISTRATION**

<b><u>Paygrade</u></b>	<b><u>Task Type</u></b>	<b><u>Task Statements</u></b>
E5	CORE	Analyze Information System (IS) trends (e.g., hardware, software, network, etc.)
E7	CORE	Approve Information Systems (IS) Standard Operating Procedures (SOP)
E6	CORE	Develop Emergency Action Plans (EAP)
E6	CORE	Develop Emergency Destruction Plans (EDP)
E4	CORE	Draft Naval messages
E5	CORE	Maintain Top Secret (TS) / Sensitive Compartmented Information (SCI) inventories
E5	CORE	Maintain Virtual Private Networks (VPN)
E6	CORE	Prepare system security assessment and authorization documentation packages
E5	NON-CORE	Update network security tools
E6	CORE	Validate network status reports

## **NETWORK MANAGEMENT**

<b><u>Paygrade</u></b>	<b><u>Task Type</u></b>	<b><u>Task Statements</u></b>
E4	CORE	Analyze audit logs
E5	CORE	Apply router Access Control Lists (ACL)
E7	CORE	Coordinate catastrophic disaster recoveries
E7	CORE	Coordinate network migrations and installations

### **NETWORK MANAGEMENT (CONT'D)**

<b><u>Paygrade</u></b>	<b><u>Task Type</u></b>	<b><u>Task Statements</u></b>
E7	CORE	Maintain network documentation (e.g., Systems Authorization Access Request-Navy (SAAR-N), Privileged Access Agreement (PAA), etc.)
E6	CORE	Manage network databases
E6	CORE	Manage network firewall policies
E7	CORE	Plan network restorations
E6	CORE	Prepare disaster recovery contingency plans

### **NETWORK OPERATIONS**

<b><u>Paygrade</u></b>	<b><u>Task Type</u></b>	<b><u>Task Statements</u></b>
E6	CORE	Configure group policy objects
E5	CORE	Construct networks
E6	CORE	Repair databases
E6	CORE	Troubleshoot databases
E5	CORE	Troubleshoot virtual network environments
E5	CORE	Verify delivered Information Systems (IS) functionality
E5	CORE	Verify delivered network components functionality
E5	CORE	Verify delivered system hardware functionality

**Job Title****Electronic Warfare Specialist****Job Code****002792****Job Family**

Computer and Mathematical

**NOC**

TBD

**Short Title (30 Characters)**

ELECTRONIC WARFARE SPECIALIST

**Short Title (14 Characters)**

EW SPEC

**Pay Plan**

Enlisted

**Career Field**

ITS

**Other Relationships and Rules**

NEC TXXX series and other NECs as assigned

**Job Description**

Electronic Warfare Specialists perform core and specialty functions of network administration within physical and virtual environments; troubleshoot and assist with the use of computer hardware and software including printers and software applications; conduct system backups and restores; install applications and peripherals; monitor and protect network computer systems by detecting and reporting threats of network intrusion and unauthorized access; protect information from and recover information after loss or damage using backups, virus detection, and recovery software procedures; utilize Information Assurance (IA) and Computer Network Defense (CND) programs; and perform network accreditations and certifications; operate Electronic Warfare System (EW) equipment to analyze and exploit Signals of Interest (SOI) to identify, locate and report hazards and threat platforms.

**DoD Relationship**Group Title

ADP Computers, General

DoD Code

115000

**O\*NET Relationship**Occupation TitleComputer Network Support  
SpecialistsSOC Code

15-1152.00

Job Family

Computer and Mathematical

**Skills***Operation and Control**Critical Thinking**Equipment Maintenance**Complex Problem Solving**Systems Analysis**Repairing**Troubleshooting**Reading Comprehension**Operation Monitoring**Writing***Abilities***Information Ordering**Deductive Reasoning**Written Comprehension**Problem Sensitivity**Inductive Reasoning**Perceptual Speed**Written Expression**Oral Expression**Flexibility of Closure**Selective Attention***COMMUNICATIONS SYSTEM OPERATIONS****Paygrade**

E4

**Task Type**

NON-CORE

**Task Statements**

Analyze record message traffic data

E4

CORE

Control access to cryptographic usage areas

E4

CORE

Inventory cryptographic keying materials

E4

CORE

Load cryptographic keying materials

E4

CORE

Receive cryptographic keying materials

E4

CORE

Store Communications Security (COMSEC) material

**ELECTRONIC WARFARE SYSTEM OPERATIONS****Paygrade**

E4

**Task Type**

CORE

**Task Statements**

Analyze historical Signals of Interest (SOI) data

E4

CORE

Analyze national systems broadcast data (e.g., Integrated Broadcast System/Common Integrated Broadcast (IBS/CIB), etc.)

E4

CORE

Analyze Signals of Interest (SOI)

E4

CORE

Analyze signals using Electronic Warfare Support (ES) systems

E4

CORE

Assess Indication &amp; Warning (I&amp;W) threats

E5

NON-CORE

Assess Maritime Pattern of Life (POL) for specific vessel types in various Area of Responsibility (AOR)

**ELECTRONIC WARFARE SYSTEM OPERATIONS (CONT'D)**

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Calculate Radar parameters (e.g., Pulse Repetition Intervals (PRI), Maximum Unambiguous Ranges (MUR), minimum range, etc.)
E4	CORE	Conduct Electronic Warfare (EW) operations
E4	CORE	Conduct Electronic Warfare Support (ES)
E4	CORE	Conduct evolution briefs
E4	CORE	Conduct pattern of life analysis
E4	CORE	Conduct RF propagation modeling
E4	CORE	Conduct Specific Emitter Identification (SEI) (Unintentional Modulation on Pulse (UMOP)) collection
E4	NON-CORE	Configure Common Integrated Broadcast (CIB) radio receiving equipment
E4	CORE	Configure Electronic Warfare Support (ES) systems
E5	CORE	Configure software-based analysis tools
E4	CORE	Configure systems for optimal signals reception
E5	NON-CORE	Construct emitter libraries
E4	CORE	Construct Order of Battle (OOB)
E4	CORE	Correlate national systems data to platform
E4	CORE	Correlate Signals of Interest (SOI)
E5	CORE	Create mission plans (i.e., ICADF mission plan)
E4	CORE	Crossfix Signals of Interest (SOI) intercepts
E5	CORE	Demodulate basic signals
E5	CORE	Determine jamming sources
E4	CORE	Determine radar systems capabilities
E4	CORE	Determine short duration and non-communications signals
E4	CORE	Determine target source utilizing Unintentional Modulation on Pulse (UMOP)
E4	CORE	Develop Electronic Warfare Support (ES) search plans (radar, communications)
E5	CORE	Disseminate Electronic Warfare Support (ES) data and reports
E4	CORE	Disseminate tactical information (internal/external)
E4	CORE	Employ Electronic Warfare Support (ES) search plans (radar, communications)
E4	CORE	Employ fixed radar systems
E4	CORE	Employ Identification, Friend or Foe (IFF) systems
E4	NON-CORE	Employ portable radar systems
E5	CORE	Evaluate mission threats
E4	NON-CORE	Evaluate signal quality
E4	CORE	Evaluate Signals of Interest (SOI)
E4	CORE	Evaluate tactical situations (operational)
E4	CORE	Generate Request For Information (RFI)
E4	CORE	Identify Electromagnetic Interference (EMI)
E5	CORE	Input filter management plans
E4	CORE	Maintain local emitter libraries

## ELECTRONIC WARFARE SYSTEM OPERATIONS (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Mitigate Electromagnetic Interference (EMI)
E4	CORE	Monitor Electromagnetic (EM) spectrum
E4	CORE	Monitor own force emissions
E4	CORE	Monitor Signals of Interest (SOI) frequencies
E4	CORE	Perform Direction Finding (DF) of distress signals
E4	CORE	Perform fusion analysis
E4	CORE	Perform modulation analysis
E4	CORE	Perform Operational Electronic Intelligence (OPELINT) analysis (e.g., situational Awareness, etc.)
E4	CORE	Perform Pre-Planned Responses (PPR)
E4	CORE	Perform Radio Direction Findings (RDF) of Signals of Interest (SOI)
E4	CORE	Perform waveform analysis
E4	CORE	Perform wavelength to frequency conversions
E5	CORE	Predict equipment performance characteristics based on atmospheric data
E5	CORE	Prioritize mission threats
E4	CORE	Process Signals of Interest (SOI)
E4	CORE	Provide tactical communication support
E5	CORE	Report Electromagnetic Interference (EMI)
E4	CORE	Report Signal of Interest (SOI)
E4	CORE	Research adversary capabilities and limitations
E4	CORE	Research Intelligence Community (IC) databases
E4	CORE	Review equipment status
E4	CORE	Search Electronic Intelligence (ELINT) databases
E4	CORE	Select antennas for signals exploitation
E4	CORE	Select receivers for signals exploitation
E4	CORE	Store Signals of Interest (SOI)
E4	CORE	Update Electronic Warfare Support (ES) search plans (radar, communications)
E4	CORE	Utilize Rapid Evaluation Guidelines (REG) (radar rules of thumb)
E4	CORE	Verify Emission Control (EMCON) conditions in effect

## EQUIPMENT MAINTENANCE

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Maintain antenna systems
E4	CORE	Maintain Electronic Warfare Support (ES) systems
E4	CORE	Maintain Identification, Friend or Foe (IFF) systems
E4	CORE	Maintain periscope and imaging systems
E5	CORE	Recover systems using Disaster Recovery Plan (DRP)
E5	CORE	Troubleshoot antenna systems
E5	CORE	Troubleshoot Electronic Warfare Support (ES) systems

### **EQUIPMENT MAINTENANCE (CONT'D)**

<b><u>Paygrade</u></b>	<b><u>Task Type</u></b>	<b><u>Task Statements</u></b>
E5	CORE	Troubleshoot Identification, Friend or Foe (IFF) systems
E5	CORE	Troubleshoot periscope and imaging systems

### **INFORMATION ASSURANCE**

<b><u>Paygrade</u></b>	<b><u>Task Type</u></b>	<b><u>Task Statements</u></b>
E4	CORE	Analyze Information Systems Security (ISS) requirements
E5	CORE	Implement system vulnerability patches
E4	CORE	Inventory Communications Security (COMSEC) equipment
E5	CORE	Inventory Top Secret (TS) / Sensitive Compartmented Information (SCI) materials
E4	CORE	Maintain Information Systems Security (ISS) logs
E4	CORE	Report Information Systems Security (ISS) incidents
E4	CORE	Report Information Systems Security (ISS) violations
E4	CORE	Report Information Systems Security (ISS) vulnerabilities
E4	CORE	Scan Information Systems (IS) for vulnerabilities
E4	CORE	Verify Information Systems Security (ISS) software programs

### **NETWORK ADMINISTRATION**

<b><u>Paygrade</u></b>	<b><u>Task Type</u></b>	<b><u>Task Statements</u></b>
E4	CORE	Administer computer Information System (IS) user accounts
E5	CORE	Analyze Information System (IS) trends (e.g., hardware, software, network, etc.)
E4	CORE	Back up Information Systems (IS)
E4	CORE	Maintain domain system accounts
E4	CORE	Maintain Information Systems (IS) assets
E4	CORE	Maintain intranet websites
E4	CORE	Maintain network databases
E4	CORE	Maintain Program of Record (POR) applications (e.g., Electronic Shift Operations Management System (ESOMS), Web Advanced Technical Information Support System (WeBATIS), etc.)
E5	CORE	Maintain Virtual Private Networks (VPN)
E5	CORE	Perform system file maintenance
E4	CORE	Prepare network status reports
E4	CORE	Update computer Information System (IS) anti-virus definitions
E5	CORE	Update local media and technical libraries (e.g., Submarine on Board Training (SOBT), Advanced Technical Information System (ATIS), etc.)
E5	NON-CORE	Update network security tools
E4	CORE	Update Program of Record (POR) systems

### **NETWORK MANAGEMENT**

<b><u>Paygrade</u></b>	<b><u>Task Type</u></b>	<b><u>Task Statements</u></b>
E4	CORE	Analyze audit logs
E4	CORE	Archive computer Information System (IS) logs
E4	CORE	Inventory computer Information System (IS) assets

### NETWORK MANAGEMENT (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E7	CORE	Maintain network documentation (e.g., Systems Authorization Access Request-Navy (SAAR-N), Priveledged Access Agreement (PAA), etc.)
E6	CORE	Manage Information Systems (IS) file and folder permissions
E4	CORE	Update trouble tickets

### NETWORK OPERATIONS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Configure anti-virus software
E4	CORE	Configure Information Systems (IS) application software
E4	CORE	Configure Information Systems (IS) network hardware
E4	CORE	Configure peripherals
E4	CORE	Configure print services
E5	CORE	Configure server Operating System (OS) software
E4	CORE	Configure storage devices
E4	CORE	Configure workstation network connectivity
E4	CORE	Configure workstation Operating System (OS) software
E4	CORE	Create workstation images
E4	CORE	Document server Operating System (OS) errors
E4	CORE	Document trouble tickets
E5	CORE	Install network components
E4	CORE	Install network software
E4	CORE	Install Operating Systems (OS)
E4	CORE	Install peripherals
E4	CORE	Install storage devices
E5	CORE	Install virtual network environments
E4	CORE	Load image software
E4	CORE	Recover computer Information Systems (IS)
E4	CORE	Remove storage devices
E4	CORE	Repair client software
E4	CORE	Repair computer Information Systems (IS)
E4	CORE	Repair intranet websites
E4	CORE	Repair network components (e.g., Local Area Network (LAN) cables, modules, etc.)
E4	NON-CORE	Repair peripherals
E5	CORE	Repair Program of Record (POR) applications (e.g., Electronic Shift Operations Management System (ESOMS), Web Advanced Technical Information Support System (WeBATIS), etc.)
E5	CORE	Repair virtual network environments
E5	NON-CORE	Set up Channel Service Units/Data Service Units (CSU/DSU) for Fiber Distributed Data Interface (FDDI) operations
E4	CORE	Shut down computer Information Systems (IS)

### NETWORK OPERATIONS (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Start up computer Information Systems (IS)
E4	CORE	Transfer files (e.g., Trivial File Transfer Protocol (TFTP), Secure Shell Protocol (SSP), etc.)
E4	CORE	Troubleshoot client applications
E4	CORE	Troubleshoot computer Information Systems (IS)
E4	CORE	Troubleshoot file and folder access problems
E4	CORE	Troubleshoot intranet websites
E5	CORE	Troubleshoot network components
E4	CORE	Troubleshoot networks
E4	CORE	Troubleshoot Operating Systems (OS)
E4	CORE	Troubleshoot peripherals
E5	CORE	Troubleshoot Program of Record (POR) applications (e.g., Electronic Shift Operations Management System (ESOMS), Web Advanced Technical Information Support System (WeBATIS), etc.)
E4	CORE	Troubleshoot storage devices
E5	CORE	Troubleshoot system hardware
E5	CORE	Troubleshoot virtual network environments
E4	CORE	Troubleshoot workstation network connectivity
E5	CORE	Update virtual network environments
E5	CORE	Verify delivered Information Systems (IS) functionality
E5	CORE	Verify delivered network components functionality
E5	CORE	Verify delivered system hardware functionality

**Job Title****Electronic Warfare Technician****Job Code****002786****Job Family**

Computer and Mathematical

**NOC**

TBD

**Short Title (30 Characters)**

ELECTRONIC WARFARE TECHNICIAN

**Short Title (14 Characters)**

EW TECH

**Pay Plan**

Enlisted

**Career Field**

ITS

**Other Relationships and Rules**

NEC TXXX series and other NECs as assigned

**Job Description**

Electronic Warfare Technicians perform core and specialty functions of network administration within physical and virtual environments; troubleshoot and assist with the use of computer hardware and software including printers and software applications; conduct system backups and restores; install applications and peripherals; monitor and protect network computer systems by detecting and reporting threats of network intrusion and unauthorized access; protect information from and recover information after loss or damage using backups, virus detection, and recovery software procedures; utilize Information Assurance (IA) and Computer Network Defense (CND) programs; conduct threat and vulnerability assessments; and perform network accreditations and certifications; operate and maintain Electronic Warfare System (EW) equipment to analyze and exploit Signals of Interest (SOI) to identify, locate and report hazards and threat platforms.

**DoD Relationship****Group Title**

ADP Computers, General

**DoD Code**

115000

**O\*NET Relationship****Occupation Title**

Network and Computer Systems Administrators

**SOC Code**

15-1142.00

**Job Family**

Computer and Mathematical

**Skills***Operation and Control**Critical Thinking**Equipment Maintenance**Systems Analysis**Complex Problem Solving**Repairing**Writing**Management of Material Resources**Reading Comprehension**Troubleshooting***Abilities***Information Ordering**Deductive Reasoning**Written Comprehension**Problem Sensitivity**Inductive Reasoning**Perceptual Speed**Written Expression**Oral Expression**Selective Attention**Flexibility of Closure***COMMUNICATIONS SYSTEM OPERATIONS****Paygrade****Task Type****Task Statements**

E4

NON-CORE

Analyze record message traffic data

E4

CORE

Control access to cryptographic usage areas

E4

CORE

Inventory cryptographic keying materials

E4

CORE

Load cryptographic keying materials

E4

CORE

Receive cryptographic keying materials

E4

CORE

Store Communications Security (COMSEC) material

**ELECTRONIC WARFARE SYSTEM OPERATIONS****Paygrade****Task Type****Task Statements**

E4

CORE

Analyze historical Signals of Interest (SOI) data

E4

CORE

Analyze national systems broadcast data (e.g., Integrated Broadcast System/Common Integrated Broadcast (IBS/CIB), etc.)

E4

CORE

Analyze Signals of Interest (SOI)

E4

CORE

Analyze signals using Electronic Warfare Support (ES) systems

E4

CORE

Assess Indication &amp; Warning (I&amp;W) threats

E5

NON-CORE

Assess Maritime Pattern of Life (POL) for specific vessel types in various Area of Responsibility (AOR)

## ELECTRONIC WARFARE SYSTEM OPERATIONS (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Calculate Radar parameters (e.g., Pulse Repetition Intervals (PRI), Maximum Unambiguous Ranges (MUR), minimum range, etc.)
E4	CORE	Conduct Electronic Warfare (EW) operations
E4	CORE	Conduct Electronic Warfare Support (ES)
E4	CORE	Conduct evolution briefs
E4	CORE	Conduct pattern of life analysis
E4	CORE	Conduct RF propagation modeling
E4	CORE	Conduct Specific Emitter Identification (SEI) (Unintentional Modulation on Pulse (UMOP)) collection
E4	NON-CORE	Configure Common Integrated Broadcast (CIB) radio receiving equipment
E4	CORE	Configure Electronic Warfare Support (ES) systems
E5	CORE	Configure software-based analysis tools
E4	CORE	Configure systems for optimal signals reception
E5	NON-CORE	Construct emitter libraries
E4	CORE	Construct Order of Battle (OOB)
E4	CORE	Correlate national systems data to platform
E4	CORE	Correlate Signals of Interest (SOI)
E5	CORE	Create mission plans (i.e., ICADF mission plan)
E4	CORE	Crossfix Signals of Interest (SOI) intercepts
E5	CORE	Demodulate basic signals
E5	CORE	Determine jamming sources
E4	CORE	Determine radar systems capabilities
E4	CORE	Determine short duration and non-communications signals
E4	CORE	Determine target source utilizing Unintentional Modulation on Pulse (UMOP)
E4	CORE	Develop Electronic Warfare Support (ES) search plans (radar, communications)
E5	NON-CORE	Develop operational products based on Pattern of Life (POL)
E5	CORE	Disseminate Electronic Warfare Support (ES) data and reports
E4	CORE	Disseminate tactical information (internal/external)
E4	CORE	Employ Electronic Warfare Support (ES) search plans (radar, communications)
E4	CORE	Employ fixed radar systems
E4	CORE	Employ Identification, Friend or Foe (IFF) systems
E4	NON-CORE	Employ portable radar systems
E5	CORE	Evaluate mission threats
E4	NON-CORE	Evaluate signal quality
E4	CORE	Evaluate Signals of Interest (SOI)
E4	CORE	Evaluate tactical situations (operational)
E4	CORE	Generate Request For Information (RFI)
E4	CORE	Identify Electromagnetic Interference (EMI)
E5	CORE	Input filter management plans

**ELECTRONIC WARFARE SYSTEM OPERATIONS (CONT'D)**

<b><u>Paygrade</u></b>	<b><u>Task Type</u></b>	<b><u>Task Statements</u></b>
E4	CORE	Maintain local emitter libraries
E5	CORE	Mitigate Electromagnetic Interference (EMI)
E4	CORE	Monitor Electromagnetic (EM) spectrum
E4	CORE	Monitor own force emissions
E4	CORE	Monitor Signals of Interest (SOI) frequencies
E4	CORE	Perform Direction Finding (DF) of distress signals
E4	CORE	Perform fusion analysis
E4	CORE	Perform modulation analysis
E4	CORE	Perform Operational Electronic Intelligence (OPELINT) analysis (e.g., situational Awareness, etc.)
E4	CORE	Perform Pre-Planned Responses (PPR)
E4	CORE	Perform Radio Direction Findings (RDF) of Signals of Interest (SOI)
E4	CORE	Perform waveform analysis
E4	CORE	Perform wavelength to frequency conversions
E5	CORE	Predict equipment performance characteristics based on atmospheric data
E5	CORE	Prioritize mission threats
E4	CORE	Process Signals of Interest (SOI)
E4	CORE	Provide tactical communication support
E5	CORE	Report Electromagnetic Interference (EMI)
E5	CORE	Report jamming sources
E4	CORE	Report Signal of Interest (SOI)
E4	CORE	Research adversary capabilities and limitations
E4	CORE	Research Intelligence Community (IC) databases
E5	CORE	Research jamming sources
E4	CORE	Review equipment status
E4	CORE	Search Electronic Intelligence (ELINT) databases
E4	CORE	Select antennas for signals exploitation
E4	CORE	Select receivers for signals exploitation
E4	CORE	Store Signals of Interest (SOI)
E6	CORE	Supervise signals analysis and reporting
E4	CORE	Update Electronic Warfare Support (ES) search plans (radar, communications)
E4	CORE	Utilize Rapid Evaluation Guidelines (REG) (radar rules of thumb)
E6	CORE	Validate Electronic Warfare Support (ES) logs
E5	CORE	Validate Electronic Warfare Support (ES) search plans (radar, communications)
E5	CORE	Validate system Radio Frequency (RF) distribution paths
E4	CORE	Verify Emission Control (EMCON) conditions in effect

## EQUIPMENT MAINTENANCE

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Coordinate sail maintenance
E4	CORE	Maintain antenna systems
E4	CORE	Maintain Electronic Warfare Support (ES) systems
E4	CORE	Maintain Identification, Friend or Foe (IFF) systems
E4	CORE	Maintain periscope and imaging systems
E5	NON-CORE	Manage test equipment
E5	CORE	Recover systems using Disaster Recovery Plan (DRP)
E5	CORE	Repair antenna systems
E5	CORE	Repair Electronic Warfare Support (ES) systems
E5	CORE	Repair Identification, Friend or Foe (IFF) systems
E5	CORE	Repair periscope and imaging systems
E6	CORE	Supervise mast and antenna maintenance
E5	CORE	Troubleshoot antenna systems
E5	CORE	Troubleshoot Electronic Warfare Support (ES) systems
E5	CORE	Troubleshoot Identification, Friend or Foe (IFF) systems
E5	CORE	Troubleshoot periscope and imaging systems

## INFORMATION ASSURANCE

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Analyze Information Systems Security (ISS) requirements
E5	CORE	Implement system vulnerability patches
E4	CORE	Inventory Communications Security (COMSEC) equipment
E5	CORE	Inventory Top Secret (TS) / Sensitive Compartmented Information (SCI) materials
E4	CORE	Maintain Information Systems Security (ISS) logs
E4	CORE	Report Information Systems Security (ISS) incidents
E4	CORE	Report Information Systems Security (ISS) violations
E4	CORE	Report Information Systems Security (ISS) vulnerabilities
E4	CORE	Scan Information Systems (IS) for vulnerabilities
E4	CORE	Verify Information Systems Security (ISS) software programs

## NETWORK ADMINISTRATION

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Administer computer Information System (IS) user accounts
E5	CORE	Analyze Information System (IS) trends (e.g., hardware, software, network, etc.)
E7	CORE	Approve network topology plans
E4	CORE	Back up Information Systems (IS)
E4	CORE	Maintain domain system accounts
E4	CORE	Maintain Information Systems (IS) assets
E4	CORE	Maintain intranet websites
E4	CORE	Maintain network databases

### NETWORK ADMINISTRATION (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Maintain Program of Record (POR) applications (e.g., Electronic Shift Operations Management System (ESOMS), Web Advanced Technical Information Support System (WeBATIS), etc.)
E5	CORE	Maintain Top Secret (TS) / Sensitive Compartmented Information (SCI) inventories
E5	CORE	Maintain Virtual Private Networks (VPN)
E5	CORE	Perform system file maintenance
E4	CORE	Prepare network status reports
E6	CORE	Update computer configuration documentation
E4	CORE	Update computer Information System (IS) anti-virus definitions
E5	CORE	Update local media and technical libraries (e.g., Submarine on Board Training (SOBT), Advanced Technical Information System (ATIS), etc.)
E5	NON-CORE	Update network security tools
E4	CORE	Update Program of Record (POR) systems

### NETWORK MANAGEMENT

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Analyze audit logs
E5	CORE	Apply router Access Control Lists (ACL)
E4	CORE	Archive computer Information System (IS) logs
E5	NON-CORE	Design intranet websites
E5	CORE	Draft network topology diagrams
E4	CORE	Inventory computer Information System (IS) assets
E6	CORE	Maintain domain backup policies
E7	CORE	Maintain network documentation (e.g., Systems Authorization Access Request-Navy (SAAR-N), Privileged Access Agreement (PAA), etc.)
E6	CORE	Manage Information Systems (IS) file and folder permissions
E6	CORE	Manage network databases
E6	CORE	Manage network firewall policies
E6	CORE	Prepare disaster recovery contingency plans
E4	CORE	Update trouble tickets

### NETWORK OPERATIONS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Configure anti-virus software
E6	CORE	Configure group policy objects
E4	CORE	Configure Information Systems (IS) application software
E4	CORE	Configure Information Systems (IS) network hardware
E5	CORE	Configure network audit logs
E4	CORE	Configure peripherals
E4	CORE	Configure print services
E5	CORE	Configure server based applications (e.g., Threat Management Gateway (TMG), Electronic Shift Operations Management System (ESOMS), etc.)

## NETWORK OPERATIONS (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Configure server Operating System (OS) software
E4	CORE	Configure storage devices
E4	CORE	Configure workstation network connectivity
E4	CORE	Configure workstation Operating System (OS) software
E5	CORE	Construct networks
E4	CORE	Create workstation images
E4	CORE	Document server Operating System (OS) errors
E4	CORE	Document trouble tickets
E5	CORE	Install network components
E4	CORE	Install network software
E4	CORE	Install Operating Systems (OS)
E4	CORE	Install peripherals
E4	CORE	Install storage devices
E5	CORE	Install virtual network environments
E4	CORE	Load image software
E4	CORE	Recover computer Information Systems (IS)
E4	CORE	Remove storage devices
E4	CORE	Repair client software
E4	CORE	Repair computer Information Systems (IS)
E6	CORE	Repair databases
E4	CORE	Repair intranet websites
E4	CORE	Repair network components (e.g., Local Area Network (LAN) cables, modules, etc.)
E4	NON-CORE	Repair peripherals
E5	CORE	Repair Program of Record (POR) applications (e.g., Electronic Shift Operations Management System (ESOMS), Web Advanced Technical Information Support System (WeBATIS), etc.)
E5	CORE	Repair virtual network environments
E5	NON-CORE	Set up Channel Service Units/Data Service Units (CSU/DSU) for Fiber Distributed Data Interface (FDDI) operations
E4	CORE	Shut down computer Information Systems (IS)
E4	CORE	Start up computer Information Systems (IS)
E4	CORE	Transfer files (e.g., Trivial File Transfer Protocol (TFTP), Secure Shell Protocol (SSP), etc.)
E4	CORE	Troubleshoot client applications
E4	CORE	Troubleshoot computer Information Systems (IS)
E6	CORE	Troubleshoot databases
E4	CORE	Troubleshoot file and folder access problems
E4	CORE	Troubleshoot intranet websites
E5	CORE	Troubleshoot network components

### NETWORK OPERATIONS (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Troubleshoot networks
E4	CORE	Troubleshoot Operating Systems (OS)
E4	CORE	Troubleshoot peripherals
E5	CORE	Troubleshoot Program of Record (POR) applications (e.g., Electronic Shift Operations Management System (ESOMS), Web Advanced Technical Information Support System (WeBATIS), etc.)
E4	CORE	Troubleshoot storage devices
E5	CORE	Troubleshoot system hardware
E5	CORE	Troubleshoot virtual network environments
E4	CORE	Troubleshoot workstation network connectivity
E5	CORE	Update virtual network environments
E5	CORE	Verify delivered Information Systems (IS) functionality
E5	CORE	Verify delivered network components functionality
E5	CORE	Verify delivered system hardware functionality

**Job Title****Electronic Warfare Manager****Job Code****002787****Job Family**  
Management**NOC**  
TBD**Short Title (30 Characters)**  
ELECTRONIC WARFARE MANAGER**Short Title (14 Characters)**  
EW MANAGER**Pay Plan**  
Enlisted**Career Field**  
ITS**Other Relationships and Rules**  
NEC TXXX series and other NECs as assigned**Job Description**

Electronic Warfare Managers assess Electronic Warfare System (EW) training, audit EW records, and coordinate EW maintenance; coordinate EW equipment modifications; develop EW employment plans and shipboard instructions; prepare EW emergency destruction plans; perform Communication Security (COMSEC) managerial operations; monitor maintenance quality control; they may also plan, coordinate, and manage unit-level Information Systems (IS) security and integration across platforms, fleets, and services; approve policies for and direct Information Assurance (IA) programs; manage and implement IS security countermeasures and network security programs; develop and review IS security assessment and authorization packages; plan and prepare for network expansions and upgrades; manage administrative functions and security procedures governing the special security program; may serve as unit Information Systems Security Manager (ISSM) or unit Systems Administrator (SYSADMIN).

**DoD Relationship**

<u>Group Title</u>	<u>DoD Code</u>
ADP Computers, General	115000

**O\*NET Relationship**

<u>Occupation Title</u>	<u>SOC Code</u>	<u>Job Family</u>
Computer and Information Managers	11-3021.00	Management

**Skills**

Critical Thinking  
 Operation and Control  
 Management of Material Resources  
 Complex Problem Solving  
 Judgment and Decision Making  
 Writing  
 Systems Evaluation  
 Coordination  
 Mathematics  
 Quality Control Analysis

**Abilities**

Deductive Reasoning  
 Information Ordering  
 Inductive Reasoning  
 Written Comprehension  
 Problem Sensitivity  
 Perceptual Speed  
 Written Expression  
 Flexibility of Closure  
 Category Flexibility  
 Selective Attention

**COMMUNICATIONS SYSTEM OPERATIONS**

<b>Paygrade</b>	<b>Task Type</b>	<b>Task Statements</b>
E4	NON-CORE	Analyze record message traffic data
E4	CORE	Control access to cryptographic usage areas
E4	CORE	Inventory cryptographic keying materials
E4	CORE	Load cryptographic keying materials
E4	CORE	Receive cryptographic keying materials
E4	CORE	Store Communications Security (COMSEC) material

**ELECTRONIC WARFARE SYSTEM OPERATIONS**

<b>Paygrade</b>	<b>Task Type</b>	<b>Task Statements</b>
E4	CORE	Analyze historical Signals of Interest (SOI) data
E4	CORE	Analyze national systems broadcast data (e.g., Integrated Broadcast System/Common Integrated Broadcast (IBS/CIB), etc.)
E4	CORE	Analyze Signals of Interest (SOI)
E4	CORE	Assess Indication & Warning (I&W) threats
E5	NON-CORE	Assess Maritime Pattern of Life (POL) for specific vessel types in various Area of Responsibility (AOR)

**ELECTRONIC WARFARE SYSTEM OPERATIONS (CONT'D)**

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Calculate Radar parameters (e.g., Pulse Repetition Intervals (PRI), Maximum Unambiguous Ranges (MUR), minimum range, etc.)
E4	CORE	Conduct Electronic Warfare (EW) operations
E4	CORE	Conduct Electronic Warfare Support (ES)
E4	CORE	Conduct pattern of life analysis
E4	CORE	Conduct RF propagation modeling
E4	CORE	Conduct Specific Emitter Identification (SEI) (Unintentional Modulation on Pulse (UMOP)) collection
E5	CORE	Configure software-based analysis tools
E4	CORE	Correlate national systems data to platform
E4	CORE	Correlate Signals of Interest (SOI)
E4	CORE	Crossfix Signals of Interest (SOI) intercepts
E5	CORE	Demodulate basic signals
E5	CORE	Determine jamming sources
E4	CORE	Determine radar systems capabilities
E4	CORE	Determine short duration and non-communications signals
E4	CORE	Determine target source utilizing Unintentional Modulation on Pulse (UMOP)
E7	NON-CORE	Develop Electronic Warfare (EW) tactics
E7	NON-CORE	Develop Electronic Warfare Support (ES) Pre Planned Responses (PPR)
E6	CORE	Develop Embedded Training Device (ETD) scenarios
E7	NON-CORE	Develop joint Electronic Warfare (EW) plans
E5	NON-CORE	Develop operational products based on Pattern of Life (POL)
E5	CORE	Disseminate Electronic Warfare Support (ES) data and reports
E4	CORE	Disseminate tactical information (internal/external)
E6	CORE	Evaluate Electronic Warfare (EW) Measure of Effectiveness (MOE)
E5	CORE	Evaluate mission threats
E4	NON-CORE	Evaluate signal quality
E4	CORE	Evaluate Signals of Interest (SOI)
E4	CORE	Evaluate tactical situations (operational)
E4	CORE	Generate Request For Information (RFI)
E4	CORE	Identify Electromagnetic Interference (EMI)
E6	NON-CORE	Interpret test and evaluation range results
E4	CORE	Maintain local emitter libraries
E6	CORE	Manage Electronic Warfare (EW) operations (e.g., Emission Control (EMCON), Electronic Warfare Support (ES), etc.)
E6	CORE	Manage Electronic Warfare Support (ES) analysis and reporting
E5	CORE	Mitigate Electromagnetic Interference (EMI)
E4	CORE	Monitor Electromagnetic (EM) spectrum
E4	CORE	Monitor own force emissions

**ELECTRONIC WARFARE SYSTEM OPERATIONS (CONT'D)**

<b><u>Paygrade</u></b>	<b><u>Task Type</u></b>	<b><u>Task Statements</u></b>
E4	CORE	Monitor Signals of Interest (SOI) frequencies
E4	CORE	Perform Direction Finding (DF) of distress signals
E4	CORE	Perform fusion analysis
E4	CORE	Perform modulation analysis
E4	CORE	Perform Operational Electronic Intelligence (OPELINT) analysis (e.g., situational Awareness, etc.)
E4	CORE	Perform Pre-Planned Responses (PPR)
E4	CORE	Perform Radio Direction Findings (RDF) of Signals of Interest (SOI)
E4	CORE	Perform waveform analysis
E4	CORE	Perform wavelength to frequency conversions
E5	CORE	Predict equipment performance characteristics based on atmospheric data
E5	CORE	Prioritize mission threats
E4	CORE	Process Signals of Interest (SOI)
E4	CORE	Provide tactical communication support
E7	CORE	Recommend Electronic Warfare (EW) mission objectives
E5	CORE	Report Electromagnetic Interference (EMI)
E5	CORE	Report jamming sources
E4	CORE	Report Signal of Interest (SOI)
E4	CORE	Research adversary capabilities and limitations
E4	CORE	Research Intelligence Community (IC) databases
E5	CORE	Research jamming sources
E4	CORE	Review equipment status
E4	CORE	Search Electronic Intelligence (ELINT) databases
E4	CORE	Select antennas for signals exploitation
E4	CORE	Select receivers for signals exploitation
E4	CORE	Store Signals of Interest (SOI)
E5	CORE	Supervise construction of emitter libraries
E5	CORE	Supervise Pre-Planned Responses (PPR) executions
E6	CORE	Supervise signals analysis and reporting
E4	CORE	Utilize Rapid Evaluation Guidelines (REG) (radar rules of thumb)
E6	CORE	Validate Electronic Warfare Support (ES) logs
E5	CORE	Validate Electronic Warfare Support (ES) search plans (radar, communications)
E6	CORE	Validate Embedded Training Device (ETD) scenarios
E6	CORE	Validate mission plans (i.e., ICADF mission plan)
E4	CORE	Verify Emission Control (EMCON) conditions in effect

### EQUIPMENT MAINTENANCE

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E6	NON-CORE	Coordinate Electronic Warfare (EW) equipment installation
E6	NON-CORE	Coordinate Electronic Warfare (EW) equipment removal
E6	NON-CORE	Coordinate Electronic Warfare (EW) test range runs
E5	CORE	Coordinate sail maintenance
E6	NON-CORE	Coordinate System Operation Verification Testing (SOVT)
E4	CORE	Maintain onboard training systems
E5	CORE	Recover systems using Disaster Recovery Plan (DRP)
E6	CORE	Supervise mast and antenna maintenance

### INFORMATION ASSURANCE

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Analyze Information Systems Security (ISS) requirements
E6	CORE	Draft Information Systems Security (ISS) directives (e.g., policies, plans, instructions, Standard Operating Procedures (SOP), etc.)
E7	CORE	Evaluate Information Systems Security (ISS) incidents
E7	CORE	Evaluate Information Systems Security (ISS) violations
E7	CORE	Evaluate Information Systems Security (ISS) vulnerabilities
E7	CORE	Evaluate system vulnerabilities
E7	CORE	Implement Information Systems Security (ISS) directives (e.g., policies, plans, instructions, Standard Operating Procedures (SOP), etc.)
E4	CORE	Inventory Communications Security (COMSEC) equipment
E5	CORE	Inventory Top Secret (TS) / Sensitive Compartmented Information (SCI) materials
E7	CORE	Maintain Information Systems Security (ISS) assessment and authorization documentation
E7	CORE	Manage electronic spillage response operations
E7	CORE	Manage Information Security Systems (ISS) programs
E7	CORE	Report Information Security (INFOSEC) compliance
E6	CORE	Update Information Systems Security (ISS) directives (e.g., policies, plans, instructions, Standard Operating Procedures (SOP), etc.)

### NETWORK ADMINISTRATION

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Analyze Information System (IS) trends (e.g., hardware, software, network, etc.)
E7	CORE	Approve Information Systems (IS) Standard Operating Procedures (SOP)
E5	CORE	Maintain Top Secret (TS) / Sensitive Compartmented Information (SCI) inventories
E5	CORE	Maintain Virtual Private Networks (VPN)
E6	CORE	Prepare system security assessment and authorization documentation packages
E5	NON-CORE	Update network security tools
E6	CORE	Validate network status reports

## NETWORK MANAGEMENT

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Analyze audit logs
E5	CORE	Apply router Access Control Lists (ACL)
E7	CORE	Coordinate catastrophic disaster recoveries
E7	CORE	Coordinate network migrations and installations
E7	CORE	Maintain network documentation (e.g., Systems Authorization Access Request-Navy (SAAR-N), Privileged Access Agreement (PAA), etc.)
E6	CORE	Manage network databases
E6	CORE	Manage network firewall policies
E7	CORE	Plan network restorations
E6	CORE	Prepare disaster recovery contingency plans

## NETWORK OPERATIONS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E6	CORE	Configure group policy objects
E5	CORE	Construct networks
E6	CORE	Repair databases
E6	CORE	Troubleshoot databases
E5	CORE	Troubleshoot virtual network environments
E5	CORE	Verify delivered Information Systems (IS) functionality
E5	CORE	Verify delivered network components functionality
E5	CORE	Verify delivered system hardware functionality