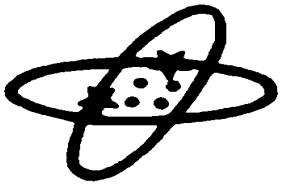
CHAPTER 32



ELECTRONICS TECHNICIAN
(ET)

NAVPERS 18068-32L
Change 92

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NAVY ENLISTED OCCUPATIONAL STANDARD

FOR

ELECTRONICS TECHNICIAN (ET)

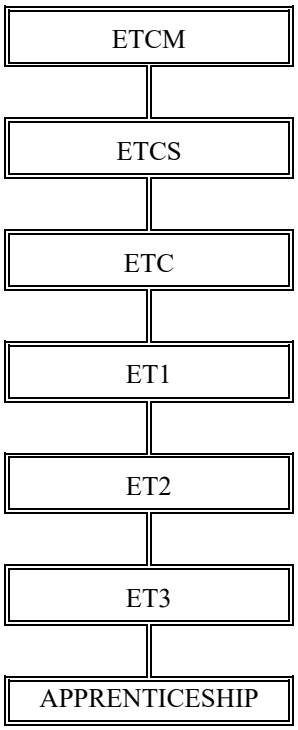
SCOPE OF RATING

Electronics Technicians (ET) perform, supervise, and manage the preventive and corrective maintenance, calibration, configuration, and alignment of cryptographic, radar, navigation, and Command, Control, Computer, Communication, and Intelligence (C4I) systems, utilizing test equipment and technical drawings.

This Occupational Standard is 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 32.

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 **Job Code**

Electronics Communications Technician 003723

Job Family	NOC	Short Title (30 Characters)	Short Title (14 Characters)
Installation, Maintenance, and Repair	TBD	ELECTRONICS COMMUNICATION TEC	E COM SYS TECH

Pay Plan	Career Field	Other Relationships and Rules
Enlisted	ET	NEC VXXX series and other NECs as assigned

Job Description

Electronics Communications Technicians maintain shore-based, ship-based, and portable communications equipment, including all associated cabling, computer, multiplexing, switching, cryptographic, recording, cooling water, and dry air systems; analyze equipment operation and align, troubleshoot, and repair equipment to the lowest replaceable unit; execute casualty control procedures, restoring operability for all assigned electronic equipment, and recognizing mission criticality and redundancies within systems; perform administrative functions that include updating casualty reporting messages, technical manuals, equipment maintenance records, and managing test equipment calibration requirements; complete fiber optic and basic soldering repair, electrical safety checks, and test equipment calibration; and supervise personnel who conduct tool and test equipment inventories, logistics support, and maintenance and testing of systems and equipment.

DoD Relationship		O*NET Relationship		
Group Title	*DoD Code*	*Occupation Title*	*SOC Code*	*Job Family*
Radio/Radar, General	110000	Telecommunications Equipment Installers and Repairers, Except Line Installers	49-2022.00	Installation, Maintenance, and Repair

Skills	Abilities
Operation and Control	*Selective Attention*
Operation Monitoring	*Deductive Reasoning*
Quality Control Analysis	*Inductive Reasoning*
Equipment Selection	*Problem Sensitivity*
Complex Problem Solving	*Time Sharing*
Troubleshooting	*Control Precision*
Systems Analysis	*Written Comprehension*
Repairing	*Information Ordering*
Management of Material Resources	*Written Expression*
Installation	*Manual Dexterity*

AUXILIARY EQUIPMENT AND SUPPORT SYSTEMS

Paygrade	Task Type	Task Statements
E4	NON-CORE	Calibrate gauges (e.g., temperature and pressure)
E4	NON-CORE	Configure alarm, safety, and warning systems
E4	CORE	Configure auxiliary air and cooling water systems
E4	NON-CORE	Configure calibration standards
E4	NON-CORE	Configure electronic security systems
E4	NON-CORE	Configure video communication systems
E4	NON-CORE	Configure video entertainment systems
E4	NON-CORE	Configure video monitoring systems
E4	NON-CORE	Configure vision enhancement equipment
E4	NON-CORE	Configure visual landing aid systems
E4	NON-CORE	Repair alarm, safety, and warning systems
E4	CORE	Repair auxiliary air and cooling water systems
E4	NON-CORE	Repair electronic security systems
E4	NON-CORE	Repair video communication systems
E4	NON-CORE	Repair video entertainment systems
E4	NON-CORE	Repair video monitoring systems

AUXILIARY EQUIPMENT AND SUPPORT SYSTEMS (CONT'D)

Paygrade	Task Type	Task Statements
E4	NON-CORE	Repair vision enhancement equipment
E4	NON-CORE	Repair visual landing aid systems
E4	CORE	Replace aloft equipment
E4	CORE	Replace electronic security systems and components
E4	NON-CORE	Test alarm, safety, and warning systems
E4	CORE	Test auxiliary air and cooling water systems
E4	NON-CORE	Test calibration standards
E4	NON-CORE	Test electronic security systems
E4	NON-CORE	Test video communication systems
E4	NON-CORE	Test video entertainment systems
E4	NON-CORE	Test video monitoring systems
E4	NON-CORE	Test vision enhancement equipment
E4	NON-CORE	Test visual landing aid systems
E4	NON-CORE	Troubleshoot alarm, safety, and warning systems
E4	CORE	Troubleshoot auxiliary air and cooling water systems
E4	NON-CORE	Troubleshoot calibration standards
E4	NON-CORE	Troubleshoot electronic security systems
E4	NON-CORE	Troubleshoot video communication systems
E4	NON-CORE	Troubleshoot video entertainment systems
E4	NON-CORE	Troubleshoot video monitoring systems
E4	NON-CORE	Troubleshoot vision enhancement equipment
E4	NON-CORE	Troubleshoot visual landing aid systems

COMMAND, CONTROL, COMPUTER, COMMUNICATION, AND INTELLIGENCE (C4I)

Paygrade	Task Type	Task Statements
E4	CORE	Configure Commercial-Off-The-Shelf (COTS) and Non-Program of Record (Non-POR) Command, Control, Computer, Communication, and Intelligence (C4I) systems (e.g., satellite systems)
E4	CORE	Configure computer and peripheral systems
E4	CORE	Configure cryptographic equipment
E4	CORE	Configure data multiplexing equipment
E4	CORE	Configure Extremely High Frequency (EHF) systems
E4	NON-CORE	Configure Extremely Low Frequency (ELF) systems
E4	CORE	Configure High Frequency (HF) systems
E4	CORE	Configure internal communication systems
E4	NON-CORE	Configure Low Frequency (LF) systems
E4	CORE	Configure message routing systems
E4	CORE	Configure network systems

COMMAND, CONTROL, COMPUTER, COMMUNICATION, AND INTELLIGENCE (C4I) (CONT'D)

Paygrade	Task Type	Task Statements
E4	NON-CORE	Configure routing and switching devices
E4	CORE	Configure Super High Frequency (SHF) systems
E4	CORE	Configure switching equipment (e.g., Automated Single Audio System (ASAS), Tactical Variant Switch (TVS), Automated Network Control Center (ANCC), etc.)
E4	CORE	Configure Ultra High Frequency (UHF) systems
E4	CORE	Configure Very High Frequency (VHF) systems
E4	NON-CORE	Configure Very Low Frequency (VLF) systems
E4	NON-CORE	Deploy Command, Control, Computer, Communication, and Intelligence (C4I) antenna systems
E4	CORE	Ensure correct operation of Radio Frequency (RF) systems (e.g., Super High Frequency (SHF), Ultra High Frequency (UHF), Very High Frequency (VHF), Extremely High Frequency (EHF), High frequency (HF))
E4	NON-CORE	Ensure correct system operation of routing and switching devices
E4	CORE	Establish audio circuits
E4	CORE	Establish data links (i.e., dual-net multi-frequency data links and multi-frequency links)
E4	NON-CORE	Integrate Intelligence, Surveillance, and Reconnaissance (ISR) services (e.g., Global Broadcasting Systems (GBS), Communications Data Link System (CDLS), etc.)
E4	CORE	Inventory network software and firmware
E4	CORE	Load cryptographic keying material
E5	CORE	Load image software
E4	CORE	Monitor message routing systems
E4	CORE	Perform End of Mission Sanitizations (EOMS)
E4	CORE	Repair Command, Control, Computer, Communication, and Intelligence (C4I) antenna systems
E4	CORE	Repair Commercial-Off-The-Shelf (COTS) and Non-Program of Record (Non-POR) Command, Control, Computer, Communication, and Intelligence (C4I) systems (e.g., satellite systems)
E4	CORE	Repair computer and peripheral systems
E4	CORE	Repair data links (i.e., dual-net multi-frequency data links and multi-frequency links)
E4	CORE	Repair data multiplexing equipment
E4	CORE	Repair Extremely High Frequency (EHF) systems
E4	NON-CORE	Repair Extremely Low Frequency (ELF) systems
E4	CORE	Repair High Frequency (HF) systems
E4	CORE	Repair internal communication systems
E4	NON-CORE	Repair Low Frequency (LF) systems
E4	CORE	Repair message routing systems
E4	CORE	Repair network systems
E4	CORE	Repair Radio Frequency (RF) circuits
E4	NON-CORE	Repair routing and switching devices
E4	CORE	Repair Super High Frequency (SHF) systems

COMMAND, CONTROL, COMPUTER, COMMUNICATION, AND INTELLIGENCE (C4I) (CONT'D)

Paygrade	Task Type	Task Statements
E4	CORE	Repair switching equipment (e.g., Automated Single Audio System (ASAS), Tactical Variant Switch (TVS), Automated Network Control Center (ANCC), etc.)
E4	CORE	Repair Ultra High Frequency (UHF) systems
E4	CORE	Repair Very High Frequency (VHF) systems
E4	NON-CORE	Repair Very Low Frequency (VLF) systems
E4	CORE	Replace cryptographic equipment
E4	CORE	Replace routing and switching devices
E4	NON-CORE	Set up cryptographic equipment
E4	NON-CORE	Set up cryptographic networks
E4	CORE	Test Command, Control, Computer, Communication, and Intelligence (C4I) antenna systems
E4	CORE	Test Commercial-Off-The-Shelf (COTS) and Non-Program of Record (Non-POR) Command, Control, Computer, Communication, and Intelligence (C4I) systems (e.g., satellite systems)
E4	CORE	Test computer and peripheral systems
E4	CORE	Test cryptographic equipment
E4	CORE	Test data links (i.e., dual-net multi-frequency data links and multi-frequency links)
E4	CORE	Test data multiplexing equipment
E4	CORE	Test Extremely High Frequency (EHF) systems
E4	NON-CORE	Test Extremely Low Frequency (ELF) systems
E4	CORE	Test High Frequency (HF) systems
E4	CORE	Test internal communication systems
E4	NON-CORE	Test Low Frequency (LF) systems
E4	CORE	Test message routing systems
E4	CORE	Test network systems
E4	CORE	Test Radio Frequency (RF) circuits
E4	NON-CORE	Test routing and switching devices
E4	CORE	Test Super High Frequency (SHF) systems
E4	CORE	Test switching equipment (e.g., Automated Single Audio System (ASAS), Tactical Variant Switch (TVS), Automated Network Control Center (ANCC), etc.)
E4	CORE	Test Ultra High Frequency (UHF) systems
E4	CORE	Test Very High Frequency (VHF) systems
E4	NON-CORE	Test Very Low Frequency (VLF) systems
E4	CORE	Troubleshoot Command, Control, Computer, Communication, and Intelligence (C4I) antenna systems
E4	CORE	Troubleshoot Commercial-Off-The-Shelf (COTS) and Non-Program of Record (Non-POR) Command, Control, Computer, Communication, and Intelligence (C4I) systems (e.g., satellite systems)
E4	CORE	Troubleshoot computer and peripheral systems
E4	CORE	Troubleshoot data links (i.e., dual-net multi-frequency data links and multi-frequency links)

COMMAND, CONTROL, COMPUTER, COMMUNICATION, AND INTELLIGENCE (C4I) (CONT'D)

Paygrade	Task Type	Task Statements
E4	CORE	Troubleshoot data multiplexing equipment
E4	CORE	Troubleshoot Extremely High Frequency (EHF) systems
E4	NON-CORE	Troubleshoot Extremely Low Frequency (ELF) systems
E4	CORE	Troubleshoot High Frequency (HF) systems
E4	CORE	Troubleshoot internal communication systems
E4	NON-CORE	Troubleshoot Low Frequency (LF) systems
E4	CORE	Troubleshoot message routing systems
E4	CORE	Troubleshoot network systems
E4	CORE	Troubleshoot Radio Frequency (RF) circuits
E4	NON-CORE	Troubleshoot routing and switching devices
E4	CORE	Troubleshoot Super High Frequency (SHF) systems
E4	CORE	Troubleshoot switching equipment (e.g., Automated Single Audio System (ASAS), Tactical Variant Switch (TVS), Automated Network Control Center (ANCC), etc.)
E4	CORE	Troubleshoot Ultra High Frequency (UHF) systems
E4	CORE	Troubleshoot Very High Frequency (VHF) systems
E4	NON-CORE	Troubleshoot Very Low Frequency (VLF) systems
E4	CORE	Update Command, Control, Computer, Communication, and Intelligence (C4I) password accounts
E4	CORE	Update network software and firmware

EQUIPMENT ADMINISTRATION

Paygrade	Task Type	Task Statements
E4	CORE	Collect equipment and system status data
E5	CORE	Derive operational requirements from technical briefs, notices, and bulletins
E4	CORE	Document equipment and system status data
E5	CORE	Draft procedural documents (e.g., Standard Operating Procedures (SOP), Temporary Standing Orders (TSO), Departure From Specifications (DFS), etc.)
E5	CORE	Implement Command, Control, Computer, Communication, and Intelligence (C4I) Communications Plans (COMPLANS)
E4	CORE	Inspect work areas, tools, and systems equipment
E4	CORE	Inventory controlled equipment
E4	CORE	Inventory Maintenance Assistance Modules (MAM)
E5	NON-CORE	Inventory small arms
E5	CORE	Maintain preventive maintenance documents
E5	CORE	Manage test equipment calibration programs
E4	CORE	Perform equipment validations
E5	CORE	Process equipment validations
E4	CORE	Report Key Management Infrastructure (KMI) discrepancies
E5	CORE	Supervise controlled equipment inventories
E4	CORE	Supervise equipment installations, testing, and alterations
E5	CORE	Supervise Maintenance Assistance Modules (MAM) usage

EQUIPMENT ADMINISTRATION (CONT'D)

Paygrade	Task Type	Task Statements
E5	CORE	Supervise work center equipment and system configurations
E5	CORE	Supervise work center maintenance operations
E5	NON-CORE	Transfer custody of small arms
E5	NON-CORE	Troubleshoot small arms
E5	CORE	Update Combat Systems Operational Sequencing System (CSOSS)
E4	CORE	Update communications status boards
E6	CORE	Validate Combat Systems Operational Sequencing System (CSOSS)

EXPEDITIONARY OPERATIONS

Paygrade	Task Type	Task Statements
E4	CORE	Configure Expeditionary Warfare (EXW) electronic equipment
E4	CORE	Configure portable communications systems
E4	CORE	Deploy Expeditionary Warfare (EXW) electronic equipment
E6	CORE	Develop expeditionary Communications Plans (COMPLANS)
E4	CORE	Ensure correct operation of portable communications systems (e.g., iridium, Portable Radio Communications (PRC), etc.)
E4	CORE	Ensure correct system operation of Expeditionary Warfare (EXW) electronic equipment
E5	CORE	Implement expeditionary Communications Plans (COMPLANS)
E4	CORE	Integrate portable communications systems (e.g., iridium, Portable Radio Communications (PRC), etc.)
E4	CORE	Perform expeditionary communications radio operations
E4	CORE	Repair Expeditionary Warfare (EXW) electronic equipment
E4	CORE	Test Expeditionary Warfare (EXW) electronic equipment
E4	CORE	Test portable communications systems
E4	CORE	Troubleshoot Expeditionary Warfare (EXW) electronic equipment
E4	CORE	Troubleshoot portable communications systems

TECHNICAL CORE FUNDAMENTALS

Paygrade	Task Type	Task Statements
E5	CORE	Analyze blueprints and ship's drawings
E4	CORE	Analyze schematics (e.g., mechanical drawings, electronic schematics, piping and valve drawings, etc.)
E4	CORE	Analyze technical manuals
E4	CORE	Configure electromechanical (synchro/servo) systems
E4	CORE	Configure General Purpose Electronic Test Equipment (GPETE)
E4	CORE	Configure power supplies
E4	CORE	Configure Special Purpose Electronic Test Equipment (SPETE)
E5	CORE	Control Electromagnetic Interference (EMI) and Radio Frequency Interference (RFI) effects on electronic systems
E4	NON-CORE	Fabricate fiber optic cables and connectors
E4	CORE	Fabricate interconnecting cables and connectors
E4	CORE	Handle Communications Security (COMSEC) materials

TECHNICAL CORE FUNDAMENTALS (CONT'D)

Paygrade	Task Type	Task Statements
E4	CORE	Inspect personal electronic equipment
E4	CORE	Inventory Communications Security (COMSEC) materials
E4	CORE	Inventory personal electronic equipment
E4	NON-CORE	Perform basic soldering on electrical and electronic equipment
E4	CORE	Perform Combat Systems Operational Sequencing System (CSOSS) procedures (e.g., casualty responses/operations, normal operations, energize/de-energize equipment, etc.)
E4	CORE	Perform corrosion prevention and control procedures on electronic equipment and systems
E4	CORE	Perform Emergency Action Plans (EAP) and Emergency Destruction Plans (EDP)
E4	CORE	Receive Communications Security (COMSEC) materials
E4	CORE	Repair Alternating Current (AC) circuits
E4	NON-CORE	Repair Alternating Current and Direct Current (AC/DC) motors
E4	CORE	Repair digital circuits
E4	CORE	Repair Direct Current (DC) circuits
E4	NON-CORE	Repair fiber optic cables and connectors
E4	CORE	Repair interconnecting cables and connectors
E4	NON-CORE	Repair power supplies
E4	CORE	Replace Alternating Current and Direct Current (AC/DC) motors
E4	CORE	Replace electromechanical (synchro/servo) systems
E4	CORE	Replace fiber optic cables
E4	CORE	Replace power supplies
E6	CORE	Report Electromagnetic Interference (EMI)
E4	CORE	Test Alternating Current (AC) circuits
E4	CORE	Test Alternating Current and Direct Current (AC/DC) motors
E4	CORE	Test digital circuits
E4	CORE	Test Direct Current (DC) circuits
E4	CORE	Test electromechanical (synchro/servo) systems
E4	CORE	Test fiber optic cables and connectors
E4	CORE	Test General Purpose Electronic Test Equipment (GPETE)
E4	CORE	Test interconnecting cables and connectors
E4	CORE	Test power supplies
E4	NON-CORE	Test Special Purpose Electronic Test Equipment (SPETE)
E4	CORE	Troubleshoot Alternating Current (AC) circuits
E4	CORE	Troubleshoot Alternating Current and Direct Current (AC/DC) motors
E4	CORE	Troubleshoot digital circuits
E4	CORE	Troubleshoot Direct Current (DC) circuits
E4	CORE	Troubleshoot electromechanical (synchro/servo) systems
E4	CORE	Troubleshoot fiber optic cables and connectors
E4	CORE	Troubleshoot General Purpose Electronic Test Equipment (GPETE)

TECHNICAL CORE FUNDAMENTALS (CONT'D)

Paygrade	Task Type	Task Statements
E4	CORE	Troubleshoot interconnecting cables and connectors
E4	CORE	Troubleshoot power supplies
E4	NON-CORE	Troubleshoot Special Purpose Electronic Test Equipment (SPETE)
E4	CORE	Validate Communications Security (COMSEC) materials

TRAINING AND CERTIFICATION

Paygrade	Task Type	Task Statements
E4	CORE	Configure combat systems for training and testing evolutions
E5	NON-CORE	Train personnel in small arms
E5	CORE	Train technicians in casualty control procedures

WATCH TEAM OPERATIONS

Paygrade	Task Type	Task Statements
E5	CORE	Calculate environmental range predictions
E4	CORE	Configure Combat Information Center (CIC)/Combat Direction Center (CDC) systems for special evolutions
E4	CORE	Configure combat systems equipment
E4	CORE	Configure combat systems for conditions of Hazards of Electromagnetic Radiation to Ordnance (HERO), Hazards of Electromagnetic Radiation to Personnel (HERP), and Hazards of Electromagnetic Radiation to Fuel (HERF)
E4	CORE	Configure combat systems for Emission Control (EMCON) conditions
E4	CORE	Configure combat systems for special evolutions
E4	CORE	Perform Combat Systems Alignments (CSA)
E4	CORE	Perform external communications (i.e., ship-to-ship, ship-to-shore, and ship-to-air)
E4	CORE	Report combat systems equipment statuses
E4	CORE	Update plotting and status boards
E5	CORE	Verify combat systems equipment configurations

Job Title **Job Code**

Electronics Data Systems Technician 003724

Job Family	NOC	Short Title (30 Characters)	Short Title (14 Characters)
Computer and Mathematical	TBD	ELECTRONICS DATA SYSTEMS TEC	E DATA SYS TEC

Pay Plan	Career Field	Other Relationships and Rules
Enlisted	ET	NEC VXXX series and other NECs as assigned

Job Description

Electronics Data Systems Technicians maintain data link, inertial navigation, tactical network, message routing, digital production/projection, calibration, fiber optics, micro-miniature module test and repair, computer-based, and peripheral computer systems; analyze equipment operation, establish computer and network configurations, and troubleshoot and repair computer-based equipment to the lowest replaceable unit; execute casualty control procedures, restoring operability for all assigned electronic equipment, recognizing mission criticality and redundancies within systems; perform administrative functions that include updating casualty reporting messages, technical manuals, equipment maintenance records, and managing test equipment calibration requirements; complete fiber optic and basic soldering repair, electrical safety checks, and test equipment calibration; and supervise personnel who conduct tool and test equipment inventories, logistics support, and maintenance and testing of systems and equipment.

DoD Relationship		O*NET Relationship		
Group Title	*DoD Code*	*Occupation Title*	*SOC Code*	*Job Family*
Radio/Radar, General	110000	Network and Computer Systems Administrators	15-1244.00	Computer and Mathematical

Skills	Abilities
Operation Monitoring	*Selective Attention*
Quality Control Analysis	*Deductive Reasoning*
Operation and Control	*Problem Sensitivity*
Equipment Selection	*Inductive Reasoning*
Complex Problem Solving	*Control Precision*
Troubleshooting	*Time Sharing*
Systems Analysis	*Written Comprehension*
Repairing	*Information Ordering*
Management of Material Resources	*Written Expression*
Installation	*Speed of Closure*

AUXILIARY EQUIPMENT AND SUPPORT SYSTEMS

Paygrade	Task Type	Task Statements
E4	NON-CORE	Calibrate gauges (e.g., temperature and pressure)
E4	NON-CORE	Configure alarm, safety, and warning systems
E4	CORE	Configure auxiliary air and cooling water systems
E4	NON-CORE	Configure calibration standards
E4	NON-CORE	Configure electronic security systems
E4	NON-CORE	Configure video communication systems
E4	NON-CORE	Configure video entertainment systems
E4	NON-CORE	Configure video monitoring systems
E4	NON-CORE	Configure vision enhancement equipment
E4	NON-CORE	Configure visual landing aid systems
E4	NON-CORE	Repair alarm, safety, and warning systems
E4	CORE	Repair auxiliary air and cooling water systems
E4	NON-CORE	Repair electronic security systems
E4	NON-CORE	Repair video communication systems
E4	NON-CORE	Repair video entertainment systems
E4	NON-CORE	Repair video monitoring systems
E4	NON-CORE	Repair vision enhancement equipment

AUXILIARY EQUIPMENT AND SUPPORT SYSTEMS (CONT'D)

Paygrade	Task Type	Task Statements
E4	NON-CORE	Repair visual landing aid systems
E4	CORE	Replace aloft equipment
E4	CORE	Replace electronic security systems and components
E4	NON-CORE	Test alarm, safety, and warning systems
E4	CORE	Test auxiliary air and cooling water systems
E4	NON-CORE	Test calibration standards
E4	NON-CORE	Test electronic security systems
E4	NON-CORE	Test video communication systems
E4	NON-CORE	Test video entertainment systems
E4	NON-CORE	Test video monitoring systems
E4	NON-CORE	Test vision enhancement equipment
E4	NON-CORE	Test visual landing aid systems
E4	NON-CORE	Troubleshoot alarm, safety, and warning systems
E4	CORE	Troubleshoot auxiliary air and cooling water systems
E4	NON-CORE	Troubleshoot calibration standards
E4	NON-CORE	Troubleshoot electronic security systems
E4	NON-CORE	Troubleshoot video communication systems
E4	NON-CORE	Troubleshoot video entertainment systems
E4	NON-CORE	Troubleshoot video monitoring systems
E4	NON-CORE	Troubleshoot vision enhancement equipment
E4	NON-CORE	Troubleshoot visual landing aid systems

COMMAND, CONTROL, COMPUTER, COMMUNICATION, AND INTELLIGENCE (C4I)

Paygrade	Task Type	Task Statements
E4	CORE	Configure Commercial-Off-The-Shelf (COTS) and Non-Program of Record (Non-POR) Command, Control, Computer, Communication, and Intelligence (C4I) systems (e.g., satellite systems)
E4	CORE	Configure computer and peripheral systems
E4	CORE	Configure cryptographic equipment
E4	CORE	Configure data multiplexing equipment
E4	CORE	Configure display systems
E4	CORE	Configure Extremely High Frequency (EHF) systems
E4	CORE	Configure internal communication systems
E4	CORE	Configure message routing systems
E4	CORE	Configure network systems
E4	NON-CORE	Configure routing and switching devices
E4	CORE	Configure Super High Frequency (SHF) systems
E4	CORE	Configure switching equipment (e.g., Automated Single Audio System (ASAS), Tactical Variant Switch (TVS), Automated Network Control Center (ANCC), etc.)
E4	CORE	Configure Ultra High Frequency (UHF) systems

COMMAND, CONTROL, COMPUTER, COMMUNICATION, AND INTELLIGENCE (C4I) (CONT'D)

Paygrade	Task Type	Task Statements
E4	NON-CORE	Deploy Command, Control, Computer, Communication, and Intelligence (C4I) antenna systems
E4	CORE	Ensure correct operation of Radio Frequency (RF) systems (e.g., Super High Frequency (SHF), Ultra High Frequency (UHF), Very High Frequency (VHF), Extremely High Frequency (EHF), High frequency (HF))
E4	NON-CORE	Ensure correct system operation of routing and switching devices
E4	CORE	Establish data links (i.e., dual-net multi-frequency data links and multi-frequency links)
E4	NON-CORE	Integrate Intelligence, Surveillance, and Reconnaissance (ISR) services (e.g., Global Broadcasting Systems (GBS), Communications Data Link System (CDLS), etc.)
E4	CORE	Inventory network software and firmware
E4	CORE	Load cryptographic keying material
E5	CORE	Load image software
E4	NON-CORE	Maintain network security
E4	CORE	Monitor message routing systems
E4	NON-CORE	Monitor networks for vulnerabilities
E4	CORE	Perform End of Mission Sanitizations (EOMS)
E4	NON-CORE	Perform Information Systems (IS) backups
E4	CORE	Repair Command, Control, Computer, Communication, and Intelligence (C4I) antenna systems
E4	CORE	Repair Commercial-Off-The-Shelf (COTS) and Non-Program of Record (Non-POR) Command, Control, Computer, Communication, and Intelligence (C4I) systems (e.g., satellite systems)
E4	CORE	Repair computer and peripheral systems
E4	CORE	Repair data links (i.e., dual-net multi-frequency data links and multi-frequency links)
E4	CORE	Repair data multiplexing equipment
E4	CORE	Repair display systems
E4	CORE	Repair Extremely High Frequency (EHF) systems
E4	CORE	Repair internal communication systems
E4	CORE	Repair message routing systems
E4	CORE	Repair network systems
E4	CORE	Repair Radio Frequency (RF) circuits
E4	NON-CORE	Repair routing and switching devices
E4	CORE	Repair Super High Frequency (SHF) systems
E4	CORE	Repair Ultra High Frequency (UHF) systems
E4	CORE	Replace cryptographic equipment
E4	CORE	Replace routing and switching devices
E4	NON-CORE	Set up cryptographic equipment
E4	NON-CORE	Set up cryptographic networks
E4	CORE	Test Command, Control, Computer, Communication, and Intelligence (C4I) antenna systems

COMMAND, CONTROL, COMPUTER, COMMUNICATION, AND INTELLIGENCE (C4I) (CONT'D)

Paygrade	Task Type	Task Statements
E4	CORE	Test Commercial-Off-The-Shelf (COTS) and Non-Program of Record (Non-POR) Command, Control, Computer, Communication, and Intelligence (C4I) systems (e.g., satellite systems)
E4	CORE	Test computer and peripheral systems
E4	CORE	Test cryptographic equipment
E4	CORE	Test data links (i.e., dual-net multi-frequency data links and multi-frequency links)
E4	CORE	Test data multiplexing equipment
E4	CORE	Test display systems
E4	CORE	Test Extremely High Frequency (EHF) systems
E4	CORE	Test internal communication systems
E4	CORE	Test message routing systems
E4	CORE	Test network systems
E4	CORE	Test Radio Frequency (RF) circuits
E4	NON-CORE	Test routing and switching devices
E4	CORE	Test Super High Frequency (SHF) systems
E4	CORE	Test switching equipment (e.g., Automated Single Audio System (ASAS), Tactical Variant Switch (TVS), Automated Network Control Center (ANCC), etc.)
E4	CORE	Test Ultra High Frequency (UHF) systems
E4	CORE	Troubleshoot Command, Control, Computer, Communication, and Intelligence (C4I) antenna systems
E4	CORE	Troubleshoot Commercial-Off-The-Shelf (COTS) and Non-Program of Record (Non-POR) Command, Control, Computer, Communication, and Intelligence (C4I) systems (e.g., satellite systems)
E4	CORE	Troubleshoot computer and peripheral systems
E4	CORE	Troubleshoot data links (i.e., dual-net multi-frequency data links and multi-frequency links)
E4	CORE	Troubleshoot data multiplexing equipment
E4	CORE	Troubleshoot display systems
E4	CORE	Troubleshoot Extremely High Frequency (EHF) systems
E4	CORE	Troubleshoot internal communication systems
E4	CORE	Troubleshoot message routing systems
E4	CORE	Troubleshoot network systems
E4	CORE	Troubleshoot Radio Frequency (RF) circuits
E4	NON-CORE	Troubleshoot routing and switching devices
E4	CORE	Troubleshoot Super High Frequency (SHF) systems
E4	CORE	Troubleshoot Ultra High Frequency (UHF) systems
E4	CORE	Update Command, Control, Computer, Communication, and Intelligence (C4I) password accounts
E4	CORE	Update network software and firmware

EQUIPMENT ADMINISTRATION

Paygrade	Task Type	Task Statements
E4	CORE	Collect equipment and system status data
E5	CORE	Derive operational requirements from technical briefs, notices, and bulletins
E4	CORE	Document equipment and system status data
E5	CORE	Draft procedural documents (e.g., Standard Operating Procedures (SOP), Temporary Standing Orders (TSO), Departure From Specifications (DFS), etc.)
E5	CORE	Implement Command, Control, Computer, Communication, and Intelligence (C4I) Communications Plans (COMPLANS)
E4	CORE	Inspect work areas, tools, and systems equipment
E4	CORE	Inventory controlled equipment
E4	CORE	Inventory Maintenance Assistance Modules (MAM)
E5	NON-CORE	Inventory small arms
E5	CORE	Maintain preventive maintenance documents
E5	CORE	Manage test equipment calibration programs
E4	CORE	Perform equipment validations
E5	CORE	Process equipment validations
E4	CORE	Report Key Management Infrastructure (KMI) discrepancies
E5	CORE	Supervise controlled equipment inventories
E4	CORE	Supervise equipment installations, testing, and alterations
E5	CORE	Supervise Maintenance Assistance Modules (MAM) usage
E5	CORE	Supervise work center equipment and system configurations
E5	CORE	Supervise work center maintenance operations
E5	NON-CORE	Transfer custody of small arms
E5	NON-CORE	Troubleshoot small arms
E5	CORE	Update Combat Systems Operational Sequencing System (CSOSS)
E4	CORE	Update communications status boards
E6	CORE	Validate Combat Systems Operational Sequencing System (CSOSS)

EXPEDITIONARY OPERATIONS

Paygrade	Task Type	Task Statements
E5	CORE	Administer expeditionary networks
E5	CORE	Configure expeditionary networks
E4	CORE	Configure Expeditionary Warfare (EXW) electronic equipment
E4	CORE	Configure portable communications systems
E4	CORE	Deploy Expeditionary Warfare (EXW) electronic equipment
E6	CORE	Develop expeditionary Communications Plans (COMPLANS)
E4	CORE	Ensure correct operation of portable communications systems (e.g., iridium, Portable Radio Communications (PRC), etc.)
E4	CORE	Ensure correct system operation of Expeditionary Warfare (EXW) electronic equipment
E5	CORE	Implement expeditionary Communications Plans (COMPLANS)

EXPEDITIONARY OPERATIONS (CONT'D)

Paygrade	Task Type	Task Statements
E4	CORE	Integrate portable communications systems (e.g., iridium, Portable Radio Communications (PRC), etc.)
E5	CORE	Manage expeditionary networks
E4	CORE	Repair Expeditionary Warfare (EXW) electronic equipment
E4	CORE	Test Expeditionary Warfare (EXW) electronic equipment
E4	CORE	Test portable communications systems
E4	CORE	Troubleshoot Expeditionary Warfare (EXW) electronic equipment
E4	CORE	Troubleshoot portable communications systems

RADAR, NAVIGATION, AND IDENTIFICATION SYSTEMS

Paygrade	Task Type	Task Statements
E4	NON-CORE	Configure navigation distribution systems
E4	CORE	Configure navigation systems
E4	CORE	Configure ships control console systems
E4	CORE	Configure ships speed systems
E4	CORE	Configure steering control systems
E4	CORE	Extract data from navigation systems for diagnostics
E4	NON-CORE	Repair navigation distribution systems
E4	CORE	Repair navigation systems
E4	CORE	Repair ships control console systems
E4	CORE	Repair ships speed systems
E4	CORE	Repair steering control systems
E4	NON-CORE	Test navigation distribution systems
E4	CORE	Test navigation systems
E4	CORE	Test ships control console systems
E4	CORE	Test ships speed systems
E4	CORE	Test steering control systems
E4	NON-CORE	Troubleshoot navigation distribution systems
E4	CORE	Troubleshoot navigation systems
E4	CORE	Troubleshoot ships control console systems
E4	CORE	Troubleshoot ships speed systems
E4	CORE	Troubleshoot steering control systems
E5	CORE	Verify Identification Friend or Foe (IFF) systems
E5	CORE	Verify Inertial Navigation Systems (INS)
E5	CORE	Verify navigation system configurations
E5	CORE	Verify radar repeaters
E5	CORE	Verify radar switchboards
E5	CORE	Verify radar systems
E5	CORE	Verify ships control console system configurations
E5	CORE	Verify ships speed system configurations

RADAR, NAVIGATION, AND IDENTIFICATION SYSTEMS (CONT'D)

Paygrade	Task Type	Task Statements
E5	CORE	Verify steering control systems
E5	CORE	Verify Tactical Air Navigation (TACAN) systems
E5	CORE	Verify wind speed and direction systems

TECHNICAL CORE FUNDAMENTALS

Paygrade	Task Type	Task Statements
E5	CORE	Analyze blueprints and ship's drawings
E4	CORE	Analyze schematics (e.g., mechanical drawings, electronic schematics, piping and valve drawings, etc.)
E4	CORE	Analyze technical manuals
E4	CORE	Configure electromechanical (synchro/servo) systems
E4	CORE	Configure General Purpose Electronic Test Equipment (GPETE)
E4	CORE	Configure power supplies
E4	CORE	Configure Special Purpose Electronic Test Equipment (SPETE)
E5	CORE	Control Electromagnetic Interference (EMI) and Radio Frequency Interference (RFI) effects on electronic systems
E4	NON-CORE	Fabricate fiber optic cables and connectors
E4	CORE	Fabricate interconnecting cables and connectors
E4	CORE	Handle Communications Security (COMSEC) materials
E4	CORE	Inspect personal electronic equipment
E4	CORE	Inventory Communications Security (COMSEC) materials
E4	CORE	Inventory personal electronic equipment
E4	NON-CORE	Perform basic soldering on electrical and electronic equipment
E4	CORE	Perform Combat Systems Operational Sequencing System (CSOSS) procedures (e.g., casualty responses/operations, normal operations, energize/de-energize equipment, etc.)
E4	CORE	Perform corrosion prevention and control procedures on electronic equipment and systems
E4	CORE	Perform Emergency Action Plans (EAP) and Emergency Destruction Plans (EDP)
E4	CORE	Receive Communications Security (COMSEC) materials
E4	CORE	Repair Alternating Current (AC) circuits
E4	NON-CORE	Repair Alternating Current and Direct Current (AC/DC) motors
E4	CORE	Repair digital circuits
E4	CORE	Repair Direct Current (DC) circuits
E4	NON-CORE	Repair fiber optic cables and connectors
E4	CORE	Repair interconnecting cables and connectors
E4	NON-CORE	Repair power supplies
E4	CORE	Replace Alternating Current and Direct Current (AC/DC) motors
E4	CORE	Replace electromechanical (synchro/servo) systems
E4	CORE	Replace fiber optic cables
E4	CORE	Replace power supplies

TECHNICAL CORE FUNDAMENTALS (CONT'D)

Paygrade	Task Type	Task Statements
E6	CORE	Report Electromagnetic Interference (EMI)
E4	CORE	Test Alternating Current (AC) circuits
E4	CORE	Test Alternating Current and Direct Current (AC/DC) motors
E4	CORE	Test digital circuits
E4	CORE	Test Direct Current (DC) circuits
E4	CORE	Test electromechanical (synchro/servo) systems
E4	CORE	Test fiber optic cables and connectors
E4	CORE	Test General Purpose Electronic Test Equipment (GPETE)
E4	CORE	Test interconnecting cables and connectors
E4	CORE	Test power supplies
E4	NON-CORE	Test Special Purpose Electronic Test Equipment (SPETE)
E4	CORE	Troubleshoot Alternating Current (AC) circuits
E4	CORE	Troubleshoot Alternating Current and Direct Current (AC/DC) motors
E4	CORE	Troubleshoot digital circuits
E4	CORE	Troubleshoot Direct Current (DC) circuits
E4	CORE	Troubleshoot electromechanical (synchro/servo) systems
E4	CORE	Troubleshoot fiber optic cables and connectors
E4	CORE	Troubleshoot General Purpose Electronic Test Equipment (GPETE)
E4	CORE	Troubleshoot interconnecting cables and connectors
E4	CORE	Troubleshoot power supplies
E4	NON-CORE	Troubleshoot Special Purpose Electronic Test Equipment (SPETE)
E4	CORE	Validate Communications Security (COMSEC) materials

TRAINING AND CERTIFICATION

Paygrade	Task Type	Task Statements
E4	CORE	Configure combat systems for training and testing evolutions
E5	NON-CORE	Train personnel in small arms
E5	CORE	Train technicians in casualty control procedures

WATCH TEAM OPERATIONS

Paygrade	Task Type	Task Statements
E4	CORE	Configure Combat Information Center (CIC)/Combat Direction Center (CDC) systems for special evolutions
E4	CORE	Configure combat systems equipment
E4	CORE	Configure combat systems for conditions of Hazards of Electromagnetic Radiation to Ordnance (HERO), Hazards of Electromagnetic Radiation to Personnel (HERP), and Hazards of Electromagnetic Radiation to Fuel (HERF)
E4	CORE	Configure combat systems for Emission Control (EMCON) conditions
E4	CORE	Configure combat systems for special evolutions
E4	CORE	Perform Combat Systems Alignments (CSA)

WATCH TEAM OPERATIONS (CONT'D)

Paygrade	Task Type	Task Statements
E4	CORE	Perform external communications (i.e., ship-to-ship, ship-to-shore, and ship-to-air)
E4	CORE	Report combat systems equipment statuses
E4	CORE	Update plotting and status boards
E5	CORE	Verify combat systems equipment configurations

Job Title **Job Code**

Electronics Radar Systems Technician 003725

Job Family	NOC	Short Title (30 Characters)	Short Title (14 Characters)
Installation, Maintenance, and Repair	TBD	ELECTRONICS RADAR SYSTEMS TEC	E RDR SYS TECH

Pay Plan	Career Field	Other Relationships and Rules
Enlisted	ET	NEC VXXX series and other NECs as assigned

Job Description

Electronics Radar Systems Technicians maintain surface search, air search, and weather radar systems, radar video switchboards, synchro Identification Friend or Foe (IFF) equipment, and Tactical Air Navigation (TACAN) equipment, including all associated cabling, cooling water, and dry air systems; analyze equipment operation and align, troubleshoot, and repair equipment to the lowest replaceable unit; execute casualty control procedures, restoring operability for all assigned electronic equipment, recognizing mission criticality and redundancies within systems; perform administrative functions that include updating casualty reporting messages, technical manuals, equipment maintenance records, and managing test equipment calibration requirements; complete fiber optic and basic soldering repair, electrical safety checks, and test equipment calibration; and supervise personnel who conduct tool and test equipment inventories, logistics support, and maintenance and testing of systems and equipment.

DoD Relationship		O*NET Relationship		
Group Title	*DoD Code*	*Occupation Title*	*SOC Code*	*Job Family*
Radio/Radar, General	110000	Electrical and Electronics Installers and Repairers, Transportation Equipment	49-2093.00	Installation, Maintenance, and Repair

Skills	Abilities
Quality Control Analysis	*Selective Attention*
Operation Monitoring	*Deductive Reasoning*
Operation and Control	*Problem Sensitivity*
Equipment Selection	*Inductive Reasoning*
Complex Problem Solving	*Control Precision*
Systems Analysis	*Time Sharing*
Troubleshooting	*Written Comprehension*
Repairing	*Written Expression*
Management of Material Resources	*Information Ordering*
Installation	*Speed of Closure*

AUXILIARY EQUIPMENT AND SUPPORT SYSTEMS

Paygrade	Task Type	Task Statements
E4	NON-CORE	Calibrate gauges (e.g., temperature and pressure)
E4	NON-CORE	Configure alarm, safety, and warning systems
E4	CORE	Configure auxiliary air and cooling water systems
E4	NON-CORE	Configure calibration standards
E4	NON-CORE	Configure electronic security systems
E4	NON-CORE	Configure video communication systems
E4	NON-CORE	Configure video entertainment systems
E4	NON-CORE	Configure video monitoring systems
E4	NON-CORE	Configure vision enhancement equipment
E4	NON-CORE	Configure visual landing aid systems
E4	NON-CORE	Repair alarm, safety, and warning systems
E4	CORE	Repair auxiliary air and cooling water systems
E4	NON-CORE	Repair electronic security systems
E4	NON-CORE	Repair video communication systems
E4	NON-CORE	Repair video entertainment systems
E4	NON-CORE	Repair video monitoring systems

AUXILIARY EQUIPMENT AND SUPPORT SYSTEMS (CONT'D)

Paygrade	Task Type	Task Statements
E4	NON-CORE	Repair vision enhancement equipment
E4	NON-CORE	Repair visual landing aid systems
E4	CORE	Replace aloft equipment
E4	CORE	Replace electronic security systems and components
E4	NON-CORE	Test alarm, safety, and warning systems
E4	CORE	Test auxiliary air and cooling water systems
E4	NON-CORE	Test calibration standards
E4	NON-CORE	Test electronic security systems
E4	NON-CORE	Test video communication systems
E4	NON-CORE	Test video entertainment systems
E4	NON-CORE	Test video monitoring systems
E4	NON-CORE	Test vision enhancement equipment
E4	NON-CORE	Test visual landing aid systems
E4	NON-CORE	Troubleshoot alarm, safety, and warning systems
E4	CORE	Troubleshoot auxiliary air and cooling water systems
E4	NON-CORE	Troubleshoot calibration standards
E4	NON-CORE	Troubleshoot electronic security systems
E4	NON-CORE	Troubleshoot video communication systems
E4	NON-CORE	Troubleshoot video entertainment systems
E4	NON-CORE	Troubleshoot video monitoring systems
E4	NON-CORE	Troubleshoot vision enhancement equipment
E4	NON-CORE	Troubleshoot visual landing aid systems

COMMAND, CONTROL, COMPUTER, COMMUNICATION, AND INTELLIGENCE (C4I)

Paygrade	Task Type	Task Statements
E4	CORE	Configure Commercial-Off-The-Shelf (COTS) and Non-Program of Record (Non-POR) Command, Control, Computer, Communication, and Intelligence (C4I) systems (e.g., satellite systems)
E4	CORE	Configure computer and peripheral systems
E4	CORE	Configure cryptographic equipment
E4	CORE	Configure display systems
E4	NON-CORE	Configure meteorological systems
E4	CORE	Configure network systems
E4	CORE	Inventory network software and firmware
E4	CORE	Load cryptographic keying material
E5	CORE	Load image software
E4	CORE	Perform End of Mission Sanitizations (EOMS)
E4	CORE	Repair Commercial-Off-The-Shelf (COTS) and Non-Program of Record (Non-POR) Command, Control, Computer, Communication, and Intelligence (C4I) systems (e.g., satellite systems)
E4	CORE	Repair computer and peripheral systems

COMMAND, CONTROL, COMPUTER, COMMUNICATION, AND INTELLIGENCE (C4I) (CONT'D)

Paygrade	Task Type	Task Statements
E4	CORE	Repair display systems
E4	NON-CORE	Repair meteorological systems
E4	CORE	Repair network systems
E4	CORE	Repair Radio Frequency (RF) circuits
E4	CORE	Replace cryptographic equipment
E4	NON-CORE	Set up cryptographic equipment
E4	CORE	Test Commercial-Off-The-Shelf (COTS) and Non-Program of Record (Non-POR) Command, Control, Computer, Communication, and Intelligence (C4I) systems (e.g., satellite systems)
E4	CORE	Test computer and peripheral systems
E4	CORE	Test cryptographic equipment
E4	CORE	Test display systems
E4	NON-CORE	Test meteorological systems
E4	CORE	Test network systems
E4	CORE	Test Radio Frequency (RF) circuits
E4	CORE	Troubleshoot Commercial-Off-The-Shelf (COTS) and Non-Program of Record (Non-POR) Command, Control, Computer, Communication, and Intelligence (C4I) systems (e.g., satellite systems)
E4	CORE	Troubleshoot computer and peripheral systems
E4	CORE	Troubleshoot display systems
E4	NON-CORE	Troubleshoot meteorological systems
E4	CORE	Troubleshoot network systems
E4	CORE	Troubleshoot Radio Frequency (RF) circuits
E4	CORE	Update Command, Control, Computer, Communication, and Intelligence (C4I) password accounts
E4	CORE	Update network software and firmware

EQUIPMENT ADMINISTRATION

Paygrade	Task Type	Task Statements
E4	CORE	Collect equipment and system status data
E5	CORE	Derive operational requirements from technical briefs, notices, and bulletins
E4	CORE	Document equipment and system status data
E5	CORE	Draft procedural documents (e.g., Standard Operating Procedures (SOP), Temporary Standing Orders (TSO), Departure From Specifications (DFS), etc.)
E5	CORE	Implement Command, Control, Computer, Communication, and Intelligence (C4I) Communications Plans (COMPLANS)
E4	CORE	Inspect work areas, tools, and systems equipment
E4	CORE	Inventory controlled equipment
E4	CORE	Inventory Maintenance Assistance Modules (MAM)
E5	NON-CORE	Inventory small arms
E5	CORE	Maintain preventive maintenance documents
E5	CORE	Manage test equipment calibration programs

EQUIPMENT ADMINISTRATION (CONT'D)

Paygrade	Task Type	Task Statements
E4	CORE	Perform equipment validations
E5	CORE	Process equipment validations
E4	CORE	Report Key Management Infrastructure (KMI) discrepancies
E5	CORE	Supervise controlled equipment inventories
E4	CORE	Supervise equipment installations, testing, and alterations
E5	CORE	Supervise Maintenance Assistance Modules (MAM) usage
E5	CORE	Supervise work center equipment and system configurations
E5	CORE	Supervise work center maintenance operations
E5	NON-CORE	Transfer custody of small arms
E5	NON-CORE	Troubleshoot small arms
E5	CORE	Update Combat Systems Operational Sequencing System (CSOSS)
E4	CORE	Update communications status boards
E6	CORE	Validate Combat Systems Operational Sequencing System (CSOSS)

EXPEDITIONARY OPERATIONS

Paygrade	Task Type	Task Statements
E4	CORE	Configure Expeditionary Warfare (EXW) electronic equipment
E4	CORE	Repair Expeditionary Warfare (EXW) electronic equipment
E4	CORE	Test Expeditionary Warfare (EXW) electronic equipment
E4	CORE	Troubleshoot Expeditionary Warfare (EXW) electronic equipment

RADAR, NAVIGATION, AND IDENTIFICATION SYSTEMS

Paygrade	Task Type	Task Statements
E4	NON-CORE	Configure Identification Friend or Foe (IFF) systems
E4	NON-CORE	Configure Inertial Navigation Systems (INS)
E4	NON-CORE	Configure navigation distribution systems
E4	CORE	Configure navigation systems
E4	CORE	Configure radar repeaters
E4	CORE	Configure radar switchboards
E4	CORE	Configure radar systems
E4	CORE	Configure ships control console systems
E4	CORE	Configure ships speed systems
E4	CORE	Configure steering control systems
E4	CORE	Configure Tactical Air Navigation (TACAN) systems
E4	CORE	Configure wind speed and direction systems
E4	CORE	Extract data from navigation systems for diagnostics
E4	NON-CORE	Repair Identification Friend or Foe (IFF) systems
E4	NON-CORE	Repair Inertial Navigation Systems (INS)
E4	NON-CORE	Repair navigation distribution systems
E4	CORE	Repair navigation systems
E4	CORE	Repair radar repeaters

RADAR, NAVIGATION, AND IDENTIFICATION SYSTEMS (CONT'D)

Paygrade	Task Type	Task Statements
E4	CORE	Repair radar switchboards
E4	CORE	Repair radar systems
E4	CORE	Repair ships control console systems
E4	CORE	Repair ships speed systems
E4	CORE	Repair steering control systems
E4	CORE	Repair Tactical Air Navigation (TACAN) systems
E4	CORE	Repair wind speed and direction systems
E4	CORE	Replace Inertial Navigation Systems (INS) components
E4	NON-CORE	Test Identification Friend or Foe (IFF) systems
E4	NON-CORE	Test Inertial Navigation Systems (INS)
E4	NON-CORE	Test navigation distribution systems
E4	CORE	Test navigation systems
E4	CORE	Test radar repeaters
E4	CORE	Test radar switchboards
E4	CORE	Test radar systems
E4	CORE	Test ships control console systems
E4	CORE	Test ships speed systems
E4	CORE	Test steering control systems
E4	CORE	Test Tactical Air Navigation (TACAN) systems
E4	CORE	Test wind speed and direction systems
E4	NON-CORE	Troubleshoot Identification Friend or Foe (IFF) systems
E4	NON-CORE	Troubleshoot Inertial Navigation Systems (INS)
E4	NON-CORE	Troubleshoot navigation distribution systems
E4	CORE	Troubleshoot navigation systems
E4	CORE	Troubleshoot radar repeaters
E4	CORE	Troubleshoot radar switchboards
E4	CORE	Troubleshoot radar systems
E4	CORE	Troubleshoot ships control console systems
E4	CORE	Troubleshoot ships speed systems
E4	CORE	Troubleshoot steering control systems
E4	CORE	Troubleshoot Tactical Air Navigation (TACAN) systems
E4	CORE	Troubleshoot wind speed and direction systems
E5	CORE	Verify Identification Friend or Foe (IFF) systems
E5	CORE	Verify Inertial Navigation Systems (INS)
E5	CORE	Verify navigation system configurations
E5	CORE	Verify radar repeaters
E5	CORE	Verify radar switchboards
E5	CORE	Verify radar systems

RADAR, NAVIGATION, AND IDENTIFICATION SYSTEMS (CONT'D)

Paygrade	Task Type	Task Statements
E5	CORE	Verify ships control console system configurations
E5	CORE	Verify ships speed system configurations
E5	CORE	Verify steering control systems
E5	CORE	Verify Tactical Air Navigation (TACAN) systems
E5	CORE	Verify wind speed and direction systems

TECHNICAL CORE FUNDAMENTALS

Paygrade	Task Type	Task Statements
E5	CORE	Analyze blueprints and ship's drawings
E4	CORE	Analyze schematics (e.g., mechanical drawings, electronic schematics, piping and valve drawings, etc.)
E4	CORE	Analyze technical manuals
E4	CORE	Configure electromechanical (synchro/servo) systems
E4	CORE	Configure General Purpose Electronic Test Equipment (GPETE)
E4	CORE	Configure power supplies
E4	CORE	Configure Special Purpose Electronic Test Equipment (SPETE)
E5	CORE	Control Electromagnetic Interference (EMI) and Radio Frequency Interference (RFI) effects on electronic systems
E4	NON-CORE	Fabricate fiber optic cables and connectors
E4	CORE	Fabricate interconnecting cables and connectors
E4	CORE	Handle Communications Security (COMSEC) materials
E4	CORE	Inspect personal electronic equipment
E4	CORE	Inventory Communications Security (COMSEC) materials
E4	CORE	Inventory personal electronic equipment
E4	NON-CORE	Perform basic soldering on electrical and electronic equipment
E4	CORE	Perform Combat Systems Operational Sequencing System (CSOSS) procedures (e.g., casualty responses/operations, normal operations, energize/de-energize equipment, etc.)
E4	CORE	Perform corrosion prevention and control procedures on electronic equipment and systems
E4	CORE	Perform Emergency Action Plans (EAP) and Emergency Destruction Plans (EDP)
E4	CORE	Receive Communications Security (COMSEC) materials
E4	CORE	Repair Alternating Current (AC) circuits
E4	NON-CORE	Repair Alternating Current and Direct Current (AC/DC) motors
E4	CORE	Repair digital circuits
E4	CORE	Repair Direct Current (DC) circuits
E4	NON-CORE	Repair fiber optic cables and connectors
E4	CORE	Repair interconnecting cables and connectors
E4	NON-CORE	Repair power supplies
E4	CORE	Replace Alternating Current and Direct Current (AC/DC) motors
E4	CORE	Replace electromechanical (synchro/servo) systems
E4	CORE	Replace fiber optic cables

TECHNICAL CORE FUNDAMENTALS (CONT'D)

Paygrade	Task Type	Task Statements
E4	CORE	Replace power supplies
E6	CORE	Report Electromagnetic Interference (EMI)
E4	CORE	Test Alternating Current (AC) circuits
E4	CORE	Test Alternating Current and Direct Current (AC/DC) motors
E4	CORE	Test digital circuits
E4	CORE	Test Direct Current (DC) circuits
E4	CORE	Test electromechanical (synchro/servo) systems
E4	CORE	Test fiber optic cables and connectors
E4	CORE	Test General Purpose Electronic Test Equipment (GPETE)
E4	CORE	Test interconnecting cables and connectors
E4	CORE	Test power supplies
E4	NON-CORE	Test Special Purpose Electronic Test Equipment (SPETE)
E4	CORE	Troubleshoot Alternating Current (AC) circuits
E4	CORE	Troubleshoot Alternating Current and Direct Current (AC/DC) motors
E4	CORE	Troubleshoot digital circuits
E4	CORE	Troubleshoot Direct Current (DC) circuits
E4	CORE	Troubleshoot electromechanical (synchro/servo) systems
E4	CORE	Troubleshoot fiber optic cables and connectors
E4	CORE	Troubleshoot General Purpose Electronic Test Equipment (GPETE)
E4	CORE	Troubleshoot interconnecting cables and connectors
E4	CORE	Troubleshoot power supplies
E4	NON-CORE	Troubleshoot Special Purpose Electronic Test Equipment (SPETE)
E4	CORE	Validate Communications Security (COMSEC) materials

TRAINING AND CERTIFICATION

Paygrade	Task Type	Task Statements
E4	CORE	Configure combat systems for training and testing evolutions
E5	NON-CORE	Train personnel in small arms
E5	CORE	Train technicians in casualty control procedures

WATCH TEAM OPERATIONS

Paygrade	Task Type	Task Statements
E5	CORE	Calculate environmental range predictions
E4	CORE	Configure Combat Information Center (CIC)/Combat Direction Center (CDC) systems for special evolutions
E4	CORE	Configure combat systems equipment
E4	CORE	Configure combat systems for conditions of Hazards of Electromagnetic Radiation to Ordnance (HERO), Hazards of Electromagnetic Radiation to Personnel (HERP), and Hazards of Electromagnetic Radiation to Fuel (HERF)
E4	CORE	Configure combat systems for Emission Control (EMCON) conditions
E4	CORE	Configure combat systems for special evolutions
E4	CORE	Perform Combat Systems Alignments (CSA)

WATCH TEAM OPERATIONS (CONT'D)

Paygrade	Task Type	Task Statements
E4	CORE	Report combat systems equipment statuses
E4	CORE	Update plotting and status boards
E5	CORE	Verify combat systems equipment configurations

Job Title **Job Code**

Electronics Systems Manager 003726

Job Family	NOC	Short Title (30 Characters)	Short Title (14 Characters)
Installation, Maintenance, and Repair	TBD	ELECTRONICS SYSTEMS MANAGER	ELEC SYS MGR

Pay Plan	Career Field	Other Relationships and Rules
Enlisted	ET	NEC VXXX series and other NECs as assigned

Job Description

Electronics Systems Managers supervise technicians and manage equipment and systems; train junior technicians in Personnel Qualification Standards (PQS) and casualty control procedures; coordinate watchstanding, maintenance, troubleshooting, and testing efforts between work centers, divisions, departments, and contractors; report equipment capabilities, limitations, and reliability to senior personnel when there is degradation in mission capability; establish and monitor safety programs and instructions for personnel and platforms; supervise training programs; coordinate support, certifications, and inspections with outside activities; and draft and update Combat System Operational Sequence System (CSOSS) procedures, Standard Operating Procedures (SOPs), Job Qualification Requirements (JQRs), casualty reports, and technical manuals.

DoD Relationship		O*NET Relationship		
Group Title	*DoD Code*	*Occupation Title*	*SOC Code*	*Job Family*
Radio/Radar, General	110000	First-Line Supervisors of Mechanics, Installers, and Repairers	49-1011.00	Installation, Maintenance, and Repair

Skills	Abilities
Management of Material Resources	*Oral Expression*
Coordination	*Inductive Reasoning*
Operation and Control	*Information Ordering*
Systems Analysis	*Written Comprehension*
Quality Control Analysis	*Category Flexibility*
Reading Comprehension	*Written Expression*
Judgment and Decision Making	*Information Ordering*
Operation Monitoring	*Problem Sensitivity*
Critical Thinking	*Selective Attention*
Systems Evaluation	*Deductive Reasoning*

AUXILIARY EQUIPMENT AND SUPPORT SYSTEMS

Paygrade	Task Type	Task Statements
E4	NON-CORE	Configure visual landing aid systems
E4	NON-CORE	Repair visual landing aid systems
E4	NON-CORE	Test visual landing aid systems
E4	NON-CORE	Troubleshoot visual landing aid systems
E5	CORE	Validate auxiliary air and cooling water system configurations

COMMAND, CONTROL, COMPUTER, COMMUNICATION, AND INTELLIGENCE (C4I)

Paygrade	Task Type	Task Statements
E6	CORE	Administer Command, Control, Computer, Communication, and Intelligence (C4I) password accounts
E6	NON-CORE	Manage network security
E6	CORE	Manage network software and firmware operations
E4	CORE	Perform End of Mission Sanitizations (EOMS)
E5	NON-CORE	Supervise network security

EQUIPMENT ADMINISTRATION

Paygrade	Task Type	Task Statements
E7	CORE	Approve equipment installations, testing, and alterations
E6	NON-CORE	Collect electromagnetic spectrum requirements
E4	CORE	Collect equipment and system status data
E7	CORE	Coordinate equipment certifications and recertifications
E5	CORE	Derive operational requirements from technical briefs, notices, and bulletins
E6	CORE	Develop communications status boards
E6	NON-CORE	Develop Emergency Action Plans (EAP) and Emergency Destruction Plans (EDP)
E4	CORE	Document equipment and system status data
E6	CORE	Draft Casualty Reports (CASREP)
E5	CORE	Draft procedural documents (e.g., Standard Operating Procedures (SOP), Temporary Standing Orders (TSO), Departure From Specifications (DFS), etc.)
E4	CORE	Inspect security containers
E4	CORE	Inspect work areas, tools, and systems equipment
E4	CORE	Inventory controlled equipment
E5	NON-CORE	Inventory small arms
E5	CORE	Maintain preventive maintenance documents
E6	CORE	Manage controlled equipment
E7	CORE	Manage divisional equipment and system configurations
E7	CORE	Manage divisional maintenance operations
E7	CORE	Manage equipment Casualty Reporting (CASREP) process
E6	CORE	Manage equipment certifications and recertifications
E6	CORE	Manage procedural documents (e.g., Standard Operating Procedures (SOP), Temporary Standing Orders (TSO), Departure From Specifications (DFS), etc.)
E7	CORE	Manage safety programs and instructions (e.g., aloft, electrical equipment, etc.)
E5	CORE	Manage test equipment calibration programs
E5	NON-CORE	Prepare local element Key Management Infrastructure (KMI) reports
E6	NON-CORE	Recommend Command, Control, Computer, Communication, and Intelligence (C4I) Communications Plans (COMPLANS)
E4	CORE	Report Key Management Infrastructure (KMI) discrepancies
E5	CORE	Supervise controlled equipment inventories
E6	CORE	Supervise divisional equipment and system configurations
E6	CORE	Supervise divisional maintenance operations
E5	CORE	Supervise work center equipment and system configurations
E5	CORE	Supervise work center maintenance operations
E5	NON-CORE	Transfer custody of small arms
E5	NON-CORE	Troubleshoot small arms

EQUIPMENT ADMINISTRATION (CONT'D)

Paygrade	Task Type	Task Statements
E5	CORE	Update Combat Systems Operational Sequencing System (CSOSS)
E4	CORE	Update communications status boards
E6	CORE	Validate Combat Systems Operational Sequencing System (CSOSS)
E6	CORE	Validate equipment installations, testing, and alterations
E7	CORE	Verify equipment installations, testing, and alterations
E7	CORE	Verify procedural documents (e.g., Standard Operating Procedures (SOP), Temporary Standing Orders (TSO), Departure From Specifications (DFS), etc.)

EXPEDITIONARY OPERATIONS

Paygrade	Task Type	Task Statements
E7	CORE	Coordinate expeditionary communications radio operations
E6	CORE	Develop expeditionary Communications Plans (COMPLANS)
E4	CORE	Ensure correct system operation of Expeditionary Warfare (EXW) electronic equipment
E5	CORE	Implement expeditionary Communications Plans (COMPLANS)
E6	CORE	Manage expeditionary communications radio operations
E4	CORE	Perform expeditionary communications radio operations
E6	NON-CORE	Prepare Satellite Access Requests (SAR), Gateway Access Requests (GAR), After Action Reports (AAR), and End of Service Reports (ESR)
E5	CORE	Supervise expeditionary communications radio operations

TECHNICAL CORE FUNDAMENTALS

Paygrade	Task Type	Task Statements
E5	CORE	Analyze blueprints and ship's drawings
E4	CORE	Analyze schematics (e.g., mechanical drawings, electronic schematics, piping and valve drawings, etc.)
E4	CORE	Analyze technical manuals
E4	CORE	Handle Communications Security (COMSEC) materials
E4	CORE	Inventory Communications Security (COMSEC) materials
E4	CORE	Perform Combat Systems Operational Sequencing System (CSOSS) procedures (e.g., casualty responses/operations, normal operations, energize/de-energize equipment, etc.)
E4	CORE	Perform Emergency Action Plans (EAP) and Emergency Destruction Plans (EDP)
E4	CORE	Receive Communications Security (COMSEC) materials
E6	CORE	Report Electromagnetic Interference (EMI)
E4	CORE	Validate Communications Security (COMSEC) materials

TRAINING AND CERTIFICATION

Paygrade	Task Type	Task Statements
E5	CORE	Conduct combat systems training and testing evolutions
E5	CORE	Conduct training evolutions (e.g., Combat Systems Training Teams (CSTT), etc.)
E7	CORE	Coordinate combat systems training and testing evolutions
E7	CORE	Coordinate personnel qualification and certification programs
E7	CORE	Coordinate training evolutions (e.g., Combat Systems Training Teams (CSTT), etc.)
E6	CORE	Develop training evolutions (e.g., Combat Systems Training Teams (CSTT), etc.)
E5	CORE	Evaluate training evolutions (e.g., Combat Systems Training Teams (CSTT), etc.)
E6	CORE	Manage personnel qualification and certification programs
E6	CORE	Supervise combat systems training and testing evolutions
E5	CORE	Supervise personnel qualification and certification programs
E5	NON-CORE	Train personnel in small arms
E5	CORE	Train technicians in casualty control procedures

WATCH TEAM OPERATIONS

Paygrade	Task Type	Task Statements
E6	CORE	Brief tactical, operational, and situational status reports
E5	CORE	Calculate environmental range predictions
E6	CORE	Configure systems to Commanding Officer's (CO) battle orders
E7	CORE	Coordinate Combat Information Centers (CIC)/Combat Direction Centers (CDC) during special evolutions (e.g., Underway Replenishment (UNREP), flight operations, etc.)
E7	CORE	Coordinate Combat Systems Alignment (CSA) evolutions
E7	CORE	Coordinate combat systems during casualty conditions
E7	CORE	Coordinate combat systems during special evolutions
E7	CORE	Coordinate combat systems operations in port
E7	CORE	Coordinate combat systems operations underway
E7	CORE	Coordinate combat systems watch teams
E7	CORE	Coordinate configurations of combat systems for conditions of Hazards of Electromagnetic Radiation to Ordnance (HERO), Hazards of Electromagnetic Radiation to Personnel (HERP), and Hazards of Electromagnetic Radiation to Fuel (HERF)
E7	CORE	Coordinate configurations of combat systems for Emission Control (EMCON) conditions
E7	CORE	Coordinate safety program evolutions (e.g., fall protection, aloft, tag out, etc.)
E7	CORE	Coordinate transitions of combat systems between conditions of readiness
E7	CORE	Develop combat systems doctrine statements
E7	CORE	Evaluate Combat Information Center (CIC)/Combat Direction Center (CDC) doctrines

WATCH TEAM OPERATIONS (CONT'D)

Paygrade	Task Type	Task Statements
E6	CORE	Implement Combat Information Center (CIC)/Combat Direction Center (CDC) doctrines
E6	CORE	Input combat systems doctrine statements
E5	CORE	Interpret Naval messages
E6	CORE	Manage Combat Information Center (CIC)/Combat Direction Center (CDC) doctrines
E6	CORE	Manage Combat Information Centers (CIC)/Combat Direction Centers (CDC) during special evolutions (e.g., Underway Replenishment (UNREP), flight operations, etc.)
E6	CORE	Manage Combat Systems Alignment (CSA) evolutions
E6	CORE	Manage combat systems during casualty conditions
E6	CORE	Manage combat systems during special evolutions
E6	CORE	Manage combat systems operations in port
E6	CORE	Manage combat systems operations underway
E6	CORE	Manage combat systems watch teams
E6	CORE	Manage configurations of combat systems for conditions of Hazards of Electromagnetic Radiation to Ordnance (HERO), Hazards of Electromagnetic Radiation to Personnel (HERP), and Hazards of Electromagnetic Radiation to Fuel (HERF)
E6	CORE	Manage configurations of combat systems for Emission Control (EMCON) conditions
E5	CORE	Manage database information
E6	CORE	Manage safety program evolutions (e.g., fall protection, aloft, tag out, etc.)
E6	CORE	Manage transitions of combat systems between conditions of readiness
E6	CORE	Perform Pre-Planned Responses (PPR)
E7	CORE	Recommend course corrections in support of tactical operations
E6	CORE	Report assignment and engagement status of own ship's combat systems
E5	CORE	Supervise Combat Information Centers (CIC)/Combat Direction Centers (CDC) during special evolutions (e.g., Underway Replenishment (UNREP), flight operations, etc.)
E5	CORE	Supervise Combat Systems Alignment (CSA) evolutions
E5	CORE	Supervise combat systems during casualty conditions
E5	CORE	Supervise combat systems during special evolutions
E5	CORE	Supervise combat systems operations in port
E5	CORE	Supervise combat systems operations underway
E5	CORE	Supervise combat systems watch teams
E5	CORE	Supervise configurations of combat systems for conditions of Hazards of Electromagnetic Radiation to Ordnance (HERO), Hazards of Electromagnetic Radiation to Personnel (HERP), and Hazards of Electromagnetic Radiation to Fuel (HERF)
E5	CORE	Supervise configurations of combat systems for Emission Control (EMCON) conditions

WATCH TEAM OPERATIONS (CONT'D)

Paygrade	Task Type	Task Statements
E6	CORE	Supervise Overall Combat Systems Operability Testing (OCSOT)
E5	CORE	Supervise safety program evolutions (e.g., fall protection, aloft, tag out, etc.)
E5	CORE	Supervise transitions of combat systems between conditions of readiness
E4	CORE	Transition combat systems between conditions of readiness
E7	CORE	Validate combat systems doctrine statements
E6	CORE	Verify assignment and engagement status of own ship's combat systems
E6	CORE	Verify systems configurations to Commanding Officer's (CO) battle orders