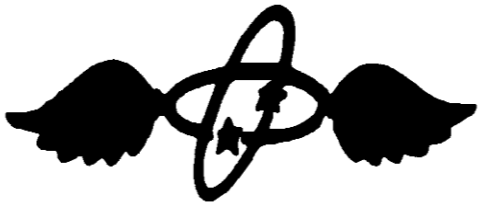
CHAPTER 11



AVIATION ELECTRONICS TECHNICIAN (AT)

NAVPERS 18068F-11I
Change 105

Updated: January 2026

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NAVY ENLISTED OCCUPATIONAL STANDARD

FOR

AVIATION ELECTRONICS TECHNICIAN (AT)

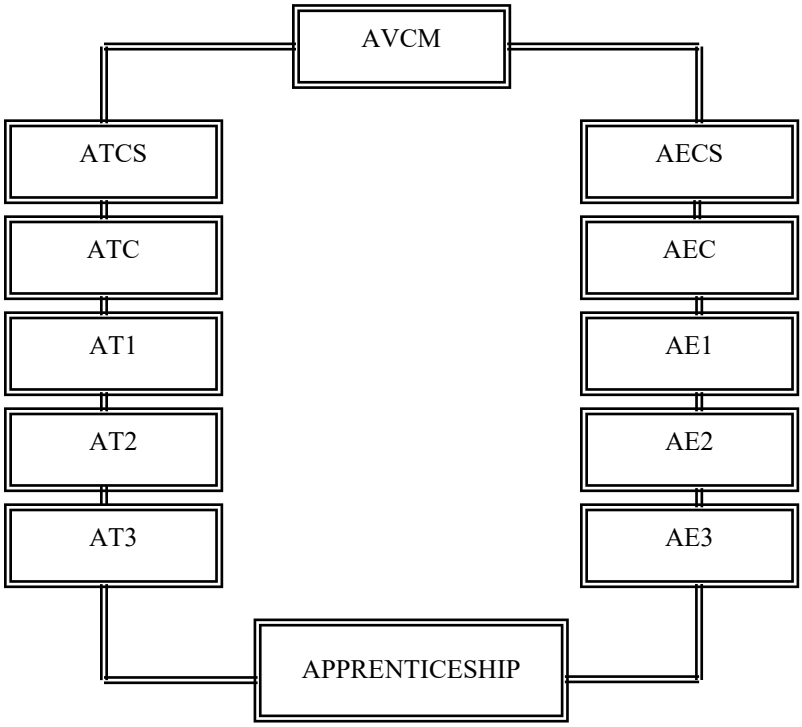
SCOPE OF RATING

Aviation Electronics Technicians (AT) perform Intermediate Level maintenance on aviation electronic components with conventional and automatic test equipment; repair Weapons Replaceable Assemblies (WRA) and Shop Replaceable Assemblies (SRA); perform test equipment calibration/repair and associated test bench maintenance; and perform Organizational Level maintenance on aircraft electronics systems to include: computers, communications, Radio Detection and Ranging (RADAR), navigation, Anti-Submarine Warfare (ASW) sensors, fiber optics, Forward Looking Infrared (FLIR), wiring, weapons systems, Light Amplification by Stimulated Emission of Radiation (LASER), electronic warfare, data link, fire control, and tactical displays with associated equipment.

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 11.

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**

Aviation Electronics Intermediate Level Technician 002410

Job Family	NOC	Short Title (30 Characters)	Short Title (14 Characters)
Installation, Maintenance, and Repair	TBD	AVIATION ELECTRONICS I-LVL TEC	AV ELTRON I-LV

Pay Plan	Career Field	Other Relationships and Rules
Enlisted	AT	NEC EXXX, IXXX, 7XXX series and other NECs as assigned

Job Description

Aviation Electronics Intermediate Level Technicians communicate with Production Control (PC) and Quality Assurance (QA) to ensure timely and accurate maintenance according to the Naval Aviation Maintenance Program (NAMP); inspect, troubleshoot, repair, and maintain a vast array of mission, navigation, Radio Detection and Ranging (RADAR), communications, and other avionics equipment; demonstrate knowledge of operational theory of assigned equipment and all levels of troubleshooting procedures; and interpret schematics for electronics and advanced electronic test equipment.

DoD Relationship

Group Title	*DoD Code*
Navigation, Communication and Countermeasure, N.E.C.	110200

O*NET Relationship

Occupation Title	*SOC Code*	*Job Family*
Avionics Technicians	49-2091.00	Installation, Maintenance, and Repair

Skills	Abilities
Systems Evaluation	*Problem Sensitivity*
Systems Analysis	*Deductive Reasoning*
Repairing	*Written Comprehension*
Troubleshooting	*Manual Dexterity*
Equipment Maintenance	*Selective Attention*
Quality Control Analysis	*Information Ordering*
Operation Monitoring	*Finger Dexterity*
Management of Material Resources	*Near Vision*
Monitoring	*Time Sharing*
Operation and Control	*Written Expression*

AVIONICS MAINTENANCE

Paygrade	Task Type	Task Statements
E4	CORE	Analyze wiring schematics
E4	CORE	Conduct scheduled inspections
E4	CORE	Conduct Technical Directive (TD) changes
E4	CORE	Load avionics-related software
E4	CORE	Load Key Management Infrastructure (KMI) systems
E4	NON-CORE	Repair Anti-Submarine Warfare (ASW) system components
E4	CORE	Repair communication system components
E4	CORE	Repair countermeasures system components
E4	CORE	Repair data handling system components
E4	CORE	Repair display, indicator, and control system components
E4	CORE	Repair Electronic Support Measures (ESM) system components
E4	NON-CORE	Repair flight recording system components
E4	NON-CORE	Repair infrared system components
E4	CORE	Repair Key Management Infrastructure (KMI) system components
E4	NON-CORE	Repair Light Amplification by Stimulated Emission of Radiation (LASER) system components
E4	CORE	Repair navigation system components
E4	CORE	Repair Radio Detection and Ranging (RADAR) system components
E4	CORE	Repair Shop Replaceable Assemblies (SRA)

AVIONICS MAINTENANCE (CONT'D)

Paygrade	Task Type	Task Statements
E4	CORE	Repair Stores Management System (SMS) components
E4	NON-CORE	Repair video and audio recording system components
E4	CORE	Repair wiring and connectors
E4	NON-CORE	Replace fiber optic cables
E4	NON-CORE	Test aircrew survival equipment radios
E4	NON-CORE	Test Anti-Submarine Warfare (ASW) system components
E4	CORE	Test communication system components
E4	CORE	Test countermeasures system components
E4	CORE	Test data handling system components
E4	CORE	Test display, indicator, and control system components
E4	CORE	Test Electronic Support Measures (ESM) system components
E4	NON-CORE	Test flight recording system components
E4	NON-CORE	Test infrared system components
E4	NON-CORE	Test Key Management Infrastructure (KMI) system components
E4	NON-CORE	Test Light Amplification by Stimulated Emission of Radiation (LASER) system components
E4	CORE	Test navigation system components
E4	CORE	Test Radio Detection and Ranging (RADAR) system components
E4	CORE	Test Shop Replaceable Assemblies (SRA)
E4	NON-CORE	Test Stores Management System (SMS)
E4	CORE	Test video and audio recording system components
E4	NON-CORE	Troubleshoot Anti-Submarine Warfare (ASW) system components
E4	CORE	Troubleshoot communication system components
E4	CORE	Troubleshoot countermeasures system components
E4	CORE	Troubleshoot data handling system components
E4	CORE	Troubleshoot display, indicator, and control system components
E4	CORE	Troubleshoot Electronic Support Measures (ESM) system components
E4	NON-CORE	Troubleshoot fiber optic cables
E4	NON-CORE	Troubleshoot flight recording system components
E4	NON-CORE	Troubleshoot infrared system components
E4	NON-CORE	Troubleshoot Key Management Infrastructure (KMI) system components
E4	NON-CORE	Troubleshoot Light Amplification by Stimulated Emission of Radiation (LASER) system components
E4	CORE	Troubleshoot navigation system components
E4	NON-CORE	Troubleshoot Radio Detection and Ranging (RADAR) system components
E4	CORE	Troubleshoot Shop Replaceable Assemblies (SRA)
E4	NON-CORE	Troubleshoot Stores Management System (SMS) components
E4	NON-CORE	Troubleshoot video and audio recording system components
E4	CORE	Troubleshoot wiring and connectors

CORROSION CONTROL

Paygrade	Task Type	Task Statements
E4	CORE	Depreserve Support Equipment (SE)
E4	CORE	Perform corrosion inspections on avionics systems and components
E4	CORE	Perform corrosion prevention procedures on avionics systems and components
E4	CORE	Perform corrosion treatment procedures on avionics systems and components
E4	CORE	Preserve Support Equipment (SE)

MAINTENANCE ADMINISTRATION

Paygrade	Task Type	Task Statements
E4	CORE	Control classified material
E5	CORE	Manage Key Management Infrastructure (KMI) program
E6	CORE	Monitor Key Management Infrastructure (KMI) program for compliance
E5	CORE	Prepare Broad Arrow (BA) reports

QUALITY ASSURANCE

Paygrade	Task Type	Task Statements
E6	CORE	Audit Naval Aviation Maintenance Program (NAMP) programs (Laser Hazard Control, Electrostatic Discharge (ESD) Protection/Electromagnetic Interference (EMI) Reporting, Electrical Wiring Interconnection System (EWIS), Aircraft Survivability Equipment)
E4	CORE	Conduct acceptance inspections
E4	CORE	Conduct Collateral Duty Inspector (CDI) inspections
E5	CORE	Conduct Collateral Duty Quality Assurance Representative (CDQAR) inspections
E4	CORE	Conduct conditional inspections
E4	CORE	Conduct phase inspections
E6	CORE	Conduct Quality Assurance Representative (QAR) inspections
E4	CORE	Conduct transfer inspections
E6	CORE	Manage Naval Aviation Maintenance Program (NAMP) programs (Laser Hazard Control, Electrostatic Discharge (ESD) Protection/Electromagnetic Interference (EMI) Reporting, Electrical Wiring Interconnection System (EWIS), Aircraft Survivability Equipment)

TEST EQUIPMENT

Paygrade	Task Type	Task Statements
E5	NON-CORE	Maintain Consolidated Automated Support System (CASS)/Electronic Consolidated Automated Support System (ECASS) Family of Testers (FOT) stations
E4	CORE	Maintain Support Equipment (SE)
E4	CORE	Perform preoperational inspections on Support Equipment (SE)
E5	NON-CORE	Repair Consolidated Automated Support System (CASS)/Electronic Consolidated Automated Support System (ECASS) Family of Testers (FOT) stations
E4	CORE	Repair Support Equipment (SE)
E4	CORE	Test Support Equipment (SE)
E4	NON-CORE	Troubleshoot Consolidated Automated Support System (CASS)/Electronic Consolidated Automated Support System (ECASS) Family of Testers (FOT) stations
E4	CORE	Troubleshoot Support Equipment (SE)

Job Title **Job Code**

Aviation Electronics Organizational Level Technician 002455

Job Family	NOC	Short Title (30 Characters)	Short Title (14 Characters)
Installation, Maintenance, and Repair	TBD	AVIATION ELECTRONICS O-LVL TEC	AV ELTRON O-LV

Pay Plan	Career Field	Other Relationships and Rules
Enlisted	AT	NEC EXXX, IXXX, 7XXX series and other NECs as assigned

Job Description

Aviation Electronics Organizational Level Technicians communicate with Maintenance Control (MC) and Quality Assurance (QA) to ensure timely and accurate maintenance according to the Naval Aviation Maintenance Program (NAMP); inspect, troubleshoot, repair, and maintain various aircraft avionics systems; demonstrate in-depth knowledge of operational theory of assigned equipment and all troubleshooting procedures; and interpret schematics for aircraft and avionics systems.

DoD Relationship

Group Title	*DoD Code*
Navigation, Communication, and Countermeasure, N.E.C.	110200

O*NET Relationship

Occupation Title	*SOC Code*	*Job Family*
Avionics Technicians	49-2091.00	Installation, Maintenance, and Repair

Skills	Abilities
Equipment Maintenance	*Written Comprehension*
Systems Evaluation	*Deductive Reasoning*
Quality Control Analysis	*Selective Attention*
Repairing	*Dynamic Strength*
Installation	*Problem Sensitivity*
Troubleshooting	*Information Ordering*
Management of Material Resources	*Finger Dexterity*
Coordination	*Near Vision*
Monitoring	*Time Sharing*
Operation and Control	*Written Expression*

AVIONICS MAINTENANCE

Paygrade	Task Type	Task Statements
E4	CORE	Analyze wiring schematics
E4	CORE	Conduct scheduled inspections
E4	CORE	Conduct Technical Directive (TD) changes
E4	NON-CORE	Install Anti-Submarine Warfare (ASW) system components
E4	CORE	Install communication system components
E4	CORE	Install countermeasures system components
E4	CORE	Install data handling system components
E4	CORE	Install display, indicator, and control system components
E4	CORE	Install Electronic Support Measures (ESM) system components
E4	CORE	Install flight recording system components
E4	CORE	Install infrared system components
E4	CORE	Install Key Management Infrastructure (KMI) system components
E4	CORE	Install Light Amplification by Stimulated Emission of Radiation (LASER) system components
E4	CORE	Install navigation system components
E4	CORE	Install Radio Detection and Ranging (RADAR) system components
E4	CORE	Install Stores Management System (SMS) components
E4	CORE	Install video and audio recording system components
E4	CORE	Load avionics-related software

AVIONICS MAINTENANCE (CONT'D)

Paygrade	Task Type	Task Statements
E4	CORE	Load Key Management Infrastructure (KMI) systems
E4	NON-CORE	Maintain Anti-Submarine Warfare (ASW) systems
E4	CORE	Maintain communication systems
E4	CORE	Maintain countermeasures systems
E4	CORE	Maintain data handling systems
E4	CORE	Maintain display, indicator, and control systems
E4	CORE	Maintain Electronic Support Measures (ESM) systems
E4	CORE	Maintain flight recording systems
E4	CORE	Maintain infrared systems
E4	CORE	Maintain Key Management Infrastructure (KMI) systems
E4	CORE	Maintain Light Amplification by Stimulated Emission of Radiation (LASER) systems
E4	CORE	Maintain navigation systems
E4	CORE	Maintain Radio Detection and Ranging (RADAR) systems
E4	CORE	Maintain Stores Management System (SMS)
E4	CORE	Maintain video and audio recording systems
E4	CORE	Perform solder repairs
E4	CORE	Perform weapons release and control systems checks
E4	NON-CORE	Remove Anti-Submarine Warfare (ASW) system components
E4	CORE	Remove communication system components
E4	CORE	Remove countermeasures system components
E4	CORE	Remove data handling system components
E4	CORE	Remove display, indicator, and control system components
E4	CORE	Remove Electronic Support Measures (ESM) system components
E4	CORE	Remove flight recording system components
E4	CORE	Remove infrared system components
E4	CORE	Remove Key Management Infrastructure (KMI) system components
E4	CORE	Remove Light Amplification by Stimulated Emission of Radiation (LASER) system components
E4	CORE	Remove navigation system components
E4	CORE	Remove Radio Detection and Ranging (RADAR) system components
E4	CORE	Remove Stores Management System (SMS) components
E4	CORE	Remove video and audio recording system components
E4	CORE	Repair wiring and connectors
E4	NON-CORE	Replace fiber optic cables
E4	NON-CORE	Troubleshoot Anti-Submarine Warfare (ASW) systems
E4	CORE	Troubleshoot communication systems
E4	CORE	Troubleshoot countermeasures systems
E4	CORE	Troubleshoot data handling systems
E4	CORE	Troubleshoot display, indicator, and control systems
E4	CORE	Troubleshoot Electronic Support Measures (ESM) systems

AVIONICS MAINTENANCE (CONT'D)

Paygrade	Task Type	Task Statements
E4	NON-CORE	Troubleshoot fiber optic cables
E4	CORE	Troubleshoot flight recording systems
E4	CORE	Troubleshoot infrared systems
E4	CORE	Troubleshoot Key Management Infrastructure (KMI) systems
E4	CORE	Troubleshoot Light Amplification by Stimulated Emission of Radiation (LASER) systems
E4	CORE	Troubleshoot navigation systems
E4	CORE	Troubleshoot Radio Detection and Ranging (RADAR) systems
E4	CORE	Troubleshoot Stores Management System (SMS)
E4	CORE	Troubleshoot video and audio recording systems
E4	CORE	Troubleshoot wiring and connectors

CORROSION CONTROL

Paygrade	Task Type	Task Statements
E4	CORE	Depreserve Support Equipment (SE)
E4	CORE	Perform corrosion inspections on avionics systems and components
E4	CORE	Perform corrosion prevention procedures on avionics systems and components
E4	CORE	Perform corrosion treatment procedures on avionics systems and components
E4	CORE	Preserve Support Equipment (SE)

MAINTENANCE ADMINISTRATION

Paygrade	Task Type	Task Statements
E4	CORE	Control classified material
E7	CORE	Coordinate flight deck and flight line operations
E7	CORE	Coordinate the preparation of the aircraft for Planned Maintenance Intervals (PMI)
E7	CORE	Coordinate the preparation of the aircraft for Standard Depot Level Maintenance (SDLM)
E5	CORE	Manage Key Management Infrastructure (KMI) program
E6	CORE	Monitor Key Management Infrastructure (KMI) program for compliance
E6	CORE	Release aircraft Safe for Flight (SFF)

QUALITY ASSURANCE

Paygrade	Task Type	Task Statements
E6	CORE	Audit Naval Aviation Maintenance Program (NAMP) programs (Laser Hazard Control, Electrostatic Discharge (ESD) Protection/Electromagnetic Interference (EMI) Reporting, Electrical Wiring Interconnection System (EWIS), Aircraft Survivability Equipment)
E4	CORE	Conduct acceptance inspections
E4	CORE	Conduct aircraft acceptance inspections
E4	CORE	Conduct Collateral Duty Inspector (CDI) inspections
E5	CORE	Conduct Collateral Duty Quality Assurance Representative (CDQAR) inspections
E4	CORE	Conduct conditional inspections
E4	CORE	Conduct phase inspections
E6	CORE	Conduct Quality Assurance Representative (QAR) inspections

QUALITY ASSURANCE (CONT'D)

Paygrade	Task Type	Task Statements
E4	CORE	Conduct transfer inspections
E6	CORE	Manage Naval Aviation Maintenance Program (NAMP) programs (Laser Hazard Control, Electrostatic Discharge (ESD) Protection/Electromagnetic Interference (EMI) Reporting, Electrical Wiring Interconnection System (EWIS), Aircraft Survivability Equipment)
E4	CORE	Perform aircraft daily inspections
E4	CORE	Perform aircraft turnaround inspections

TEST EQUIPMENT

Paygrade	Task Type	Task Statements
E4	CORE	Maintain Support Equipment (SE)
E4	CORE	Perform preoperational inspections on Support Equipment (SE)