

CHAPTER 11



AVIATION ELECTRONICS TECHNICIAN (AT)

NAVPERS 18068-11E

CH-56

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TABLE OF CONTENTS
AVIATION ELECTRONICS TECHNICIAN (INTERMEDIATE) (ATI)

SCOPE OF RATING	AT-3(I)
GENERAL INFORMATION	AT-4(I)
AVIATION CALIBRATION TECHNICIAN	AT-5(I)
AVIONICS SYSTEMS MAINTENANCE	AT-5(I)
ELECTRICAL AND ELECTRONIC MAINTENANCE	AT-5(I)
LOGISTICS AND TECHNICAL ADMINISTRATION	AT-6(I)
QUALITY ASSURANCE	AT-6(I)
TEST EQUIPMENT	AT-6(I)
AVIATION ELECTRONICS INTERMEDIATE LEVEL TECHNICIAN	AT-7(I)
AVIONICS SYSTEMS MAINTENANCE	AT-7(I)
ELECTRICAL AND ELECTRONIC MAINTENANCE	AT-8(I)
LOGISTICS AND TECHNICAL ADMINISTRATION	AT-9(I)
QUALITY ASSURANCE	AT-9(I)
TEST EQUIPMENT	AT-9(I)

NAVY ENLISTED OCCUPATIONAL STANDARD
FOR
AVIATION ELECTRONICS TECHNICIAN (INTERMEDIATE) (ATI)

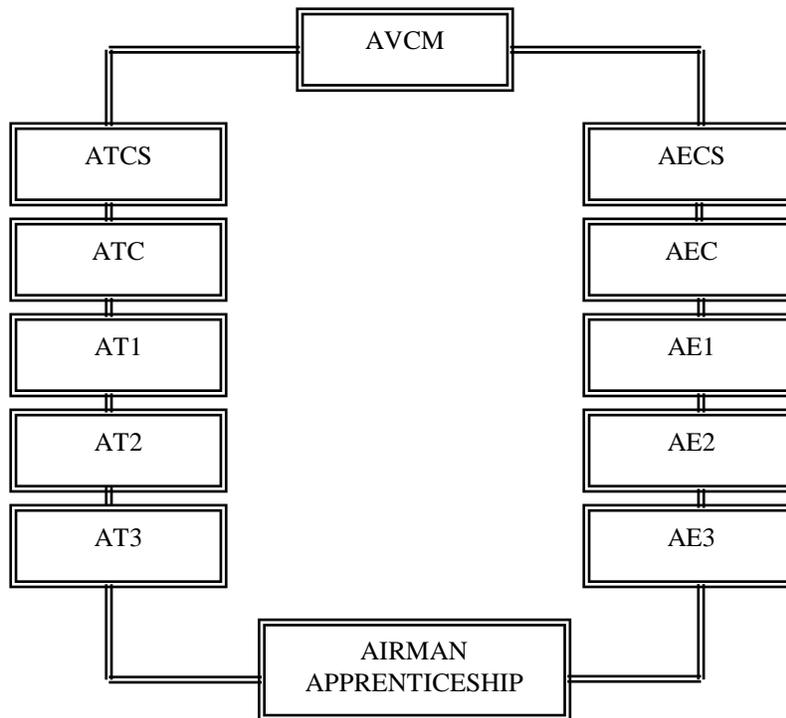


SCOPE OF RATING

Aviation Electronics Technicians (Intermediate) (ATI) perform intermediate level maintenance on aviation electronic components supported by conventional and automatic test equipment, including repair of Weapons Replaceable Assemblies (WRA) and Shop Replaceable Assemblies (SRA), and perform test equipment calibration/repair and associated test bench maintenance.

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) in 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**Aviation Calibration Technician****Job Code****002365****Job Family**

Installation, Maintenance, and Repair

NOC

TBD

Short Title (30 Characters)

AVIATION CALIBRATION TEC

Short Title (10 Characters)

ACAL TEC

Pay Plan

Enlisted

Career Field

ATI

Other Relationships and Rules

NEC's may include 65XX, 66XX, 67XX, 83XX, 88XX series, 7173, 7978

Job Description

Aviation Calibration Technicians communicate with Production Control and Quality Assurance work centers in order to ensure timely and accurate work products according to the Naval Aviation Maintenance Program (NAMPP); work to increase the proficiency of the work center by removing and replacing failing components in the following types of equipment: Precision Measuring Equipment (PME), Electronic Test Equipment, and Physical Measuring Equipment; conduct troubleshooting procedures using critical thinking skills and deductive reasoning; are proficient in interpreting schematics for electronic circuits; and have an in-depth understanding of the theory supporting basic and advanced electronic test equipment.

DoD RelationshipGroup Title

Navigation, Communication, and Countermeasure, N.E.C.

DoD Code

110200

O*NET RelationshipOccupation Title

Electrical and Electronics Installers and Repairers, Transportation Equipment

SOC Code

49- 2093.00

Job Family

Installation, Maintenance, and Repair

Skills*Systems Evaluation**Repairing**Equipment Maintenance**Monitoring**Quality Control Analysis**Complex Problem Solving**Writing**Critical Thinking**Equipment Selection**Installation***Abilities***Deductive Reasoning**Manual Dexterity**Written Comprehension**Finger Dexterity**Problem Sensitivity**Written Expression**Inductive Reasoning**Perceptual Speed**Selective Attention**Oral Comprehension***AVIONICS SYSTEMS MAINTENANCE****Paygrade**

E4

Task Type

CORE

Task Statements

Maintain Global Positioning System (GPS) components

E4

CORE

Treat corrosion on aircraft electrical and avionics components

ELECTRICAL AND ELECTRONIC MAINTENANCE**Paygrade**

E4

Task Type

CORE

Task Statements

Maintain support equipment

E7

CORE

Manage electronic maintenance

E4

NON-CORE

Perform Micro-Miniature (2M) repairs

E4

CORE

Repair electronic equipment

E4

NON-CORE

Repair microwave frequency equipment

E4

CORE

Replace Circuit Card Assemblies (CCA)

E4

CORE

Replace Shop Replaceable Assemblies (SRA)

E6

CORE

Supervise electronic maintenance

E4

CORE

Troubleshoot support equipment

LOGISTICS AND TECHNICAL ADMINISTRATION

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Brief maintenance operations (Production Control (PC) and workcenter)
E4	CORE	Document maintenance actions
E7	CORE	Manage Broad Arrow requirements
E7	CORE	Manage cannibalization actions
E7	CORE	Manage Production Control (PC)
E5	CORE	Review Maintenance Data Reports (MDR) to include Buffer Management Tool (BMT)
E4	CORE	Safeguard classified material
E6	CORE	Update Monthly Maintenance Plans (MMP)

QUALITY ASSURANCE

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Conduct Collateral Duty Inspections (CDI)
E6	CORE	Conduct Quality Assurance (QA) inspections
E4	CORE	Incorporate Technical Directives (TD)
E5	CORE	Inspect test equipment
E6	CORE	Manage the Naval Aviation Maintenance Program (NAMP)
E4	CORE	Monitor climate standards for calibration laboratories
E5	CORE	Monitor Naval Aviation Maintenance Program (NAMP)
E5	CORE	Perform acceptance inspections
E6	CORE	Submit Naval Aviation Maintenance Discrepancy Reporting Program (NAMDRP)

TEST EQUIPMENT

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Align electronic equipment
E4	NON-CORE	Calibrate dimensional measuring equipment
E4	NON-CORE	Calibrate electronic test equipment
E4	NON-CORE	Calibrate microwave frequency equipment
E4	NON-CORE	Calibrate Precision Measuring Equipment (PME)
E4	CORE	Maintain microwave calibration standards and components
E4	NON-CORE	Repair dimensional measuring equipment
E4	CORE	Repair electronic test equipment
E5	NON-CORE	Repair Precision Measuring Equipment (PME)
E4	CORE	Repair support equipment
E4	CORE	Repair test equipment

Job Title

Aviation Electronics Intermediate Level Technician

Job Code

002410

Job Family

Installation, Maintenance, and Repair

NOC

TBD

Short Title (30 Characters)

AVIATION ELECTRONICS I-LVL TEC

Short Title (10 Characters)

IMA TEC

Pay Plan

Enlisted

Career Field

ATI

Other Relationships and Rules

NEC's may include 65XX, 66XX, 67XX, 83XX, 88XX series, 7173, 7978

Job Description

Aviation Electronics Intermediate Level Technicians communicate with Production Control and Quality Assurance work centers in order to ensure timely and accurate work products according to the Naval Aviation Maintenance Program (NAMPP); inspect, troubleshoot, repair, and maintain a vast array of mission navigation, radar, and communications avionics equipment; have an in-depth understanding of the operational theory of their assigned equipment and knowledge of basic through advanced troubleshooting procedures; and are required to read and interpret schematics for electronics and advanced electronic test equipment.

DoD Relationship

Group Title

Navigation, Communication, and Countermeasure, N.E.C.

DoD Code

110200

O*NET Relationship

Occupation Title

Electrical and Electronic Repairers, Commercial and Industrial Equipment

SOC Code

49-2094.00

Job Family

Installation, Maintenance, and Repair

Skills

Systems Evaluation
Equipment Maintenance
Equipment Selection
Troubleshooting
Installation
Quality Control Analysis
Repairing
Monitoring
Operation Monitoring
Complex Problem Solving

Abilities

Deductive Reasoning
Problem Sensitivity
Written Comprehension
Selective Attention
Manual Dexterity
Perceptual Speed
Written Expression
Finger Dexterity
Inductive Reasoning
Oral Comprehension

AVIONICS SYSTEMS MAINTENANCE

Pavgrade

Task Type

Task Statements

E4	CORE	Load avionics memory data
E4	CORE	Maintain Automatic Carrier Landing System (ACLS) components
E4	CORE	Maintain data link system components
E4	CORE	Maintain Global Positioning System (GPS) components
E4	CORE	Maintain High Frequency (HF) system components
E4	CORE	Maintain Identification Friend or Foe (IFF) communication system components
E4	CORE	Maintain Instrument Landing System (ILS) components
E4	CORE	Maintain Intercommunication System (ICS) components
E4	CORE	Maintain mission computer system components
E4	CORE	Maintain Tactical Air Navigation (TACAN) system components
E4	CORE	Maintain Ultra High Frequency (UHF) system components
E4	CORE	Maintain Very High Frequency (VHF) system components
E4	CORE	Maintain weapons system components
E4	CORE	Repair Anti-Submarine Warfare (ASW) system components

E4	CORE	Repair avionics system components
E4	CORE	Repair countermeasures system components
E4	CORE	Replace Unit Under Test (UUT) sub-assemblies
E4	CORE	Test Anti-Submarine Warfare (ASW) system components
E4	CORE	Test avionics assemblies and sub-assemblies
E4	CORE	Test countermeasures system components
E4	CORE	Treat corrosion on aircraft electrical and avionics components
E4	CORE	Troubleshoot Anti-Submarine Warfare (ASW) system components
E4	CORE	Troubleshoot avionics assemblies and sub-assemblies
E4	CORE	Troubleshoot Communications Security (COMSEC) system components
E4	CORE	Troubleshoot countermeasures system components
E4	CORE	Troubleshoot data link system components
E4	CORE	Troubleshoot High Frequency (HF) system components
E4	CORE	Troubleshoot Identification Friend or Foe (IFF) communication system components
E4	CORE	Troubleshoot Instrument Landing System (ILS) components
E4	CORE	Troubleshoot Intercommunications System (ICS) components
E4	CORE	Troubleshoot mission computer system components

ELECTRICAL AND ELECTRONIC MAINTENANCE

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Maintain Communications Security (COMSEC) system components
E4	CORE	Maintain support equipment
E7	CORE	Manage electronic maintenance
E4	NON-CORE	Perform Micro-Miniature (2M) repairs
E4	CORE	Repair electronic equipment
E4	CORE	Replace Circuit Card Assemblies (CCA)
E4	CORE	Replace Consolidated Automated Support System (CASS) sub-assemblies
E4	CORE	Replace Consolidated Automated Support System (CASS) test station equipment
E4	CORE	Replace Electro-Optical (EO) support equipment
E4	CORE	Replace Operational Test Program Set (OTPS) sub-assemblies
E4	CORE	Replace Shop Replaceable Assemblies (SRA)
E6	CORE	Supervise electronic maintenance
E4	CORE	Test aircrew survival equipment radios
E4	CORE	Test automatic test equipment
E4	CORE	Troubleshoot support equipment

LOGISTICS AND TECHNICAL ADMINISTRATION

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Brief maintenance operations (Production Control (PC) and workcenter)
E4	CORE	Document maintenance actions
E7	CORE	Manage Broad Arrow requirements
E7	CORE	Manage cannibalization actions
E7	CORE	Manage Production Control (PC)
E5	CORE	Review Maintenance Data Reports (MDR) to include Buffer Management Tool (BMT)
E4	CORE	Safeguard classified material
E6	CORE	Update Monthly Maintenance Plans (MMP)

QUALITY ASSURANCE

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Conduct Collateral Duty Inspections (CDI)
E6	CORE	Conduct Quality Assurance (QA) inspections
E4	CORE	Incorporate Technical Directives (TD)
E5	CORE	Inspect Communications Security (COMSEC) system components
E5	CORE	Inspect test equipment
E6	CORE	Manage the Naval Aviation Maintenance Program (NAMP)
E5	CORE	Monitor Naval Aviation Maintenance Program (NAMP)
E5	CORE	Perform acceptance inspections
E6	CORE	Submit Naval Aviation Maintenance Discrepancy Reporting Program (NAMDRP)

TEST EQUIPMENT

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Align electronic equipment
E4	NON-CORE	Calibrate electronic test equipment
E4	CORE	Maintain weapons test consoles
E4	CORE	Repair automatic test equipment components
E4	CORE	Repair electronic test equipment
E4	CORE	Repair support equipment
E4	CORE	Test legacy test equipment