

CHAPTER 7



AVIATION STRUCTURAL MECHANIC (SAFETY EQUIPMENT) (AME)

NAVPERS 18068F-7I
Change 86

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NAVY ENLISTED OCCUPATIONAL STANDARD

FOR

AVIATION STRUCTURAL MECHANIC (SAFETY EQUIPMENT) (AME)



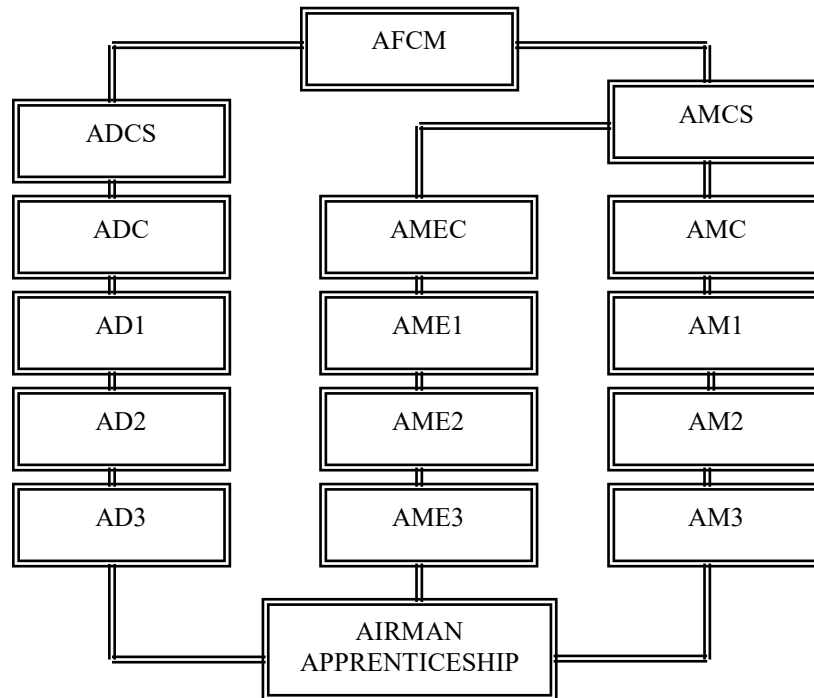
SCOPE OF RATING

Aviation Structural Mechanics (Safety Equipment) (AME) maintain ejection seats, canopy jettison components, environmental control, fire extinguishing, and associated life support systems; maintain gaseous and liquid oxygen, cockpit pressurization, heating and cooling, ventilation systems, avionics cooling, and anti-gravity and control components; maintain utility systems and associated lines, fittings, rigging, valves, control mechanisms, oxygen gauges, converters, and regulators; inspect, remove, and install ejection seats, and shoulder harnesses; inspect, remove, and install explosive devices; adjust canopy and ejection seat firing mechanisms; operate and maintain liquid oxygen, gaseous oxygen and nitrogen support equipment; and perform daily, pre-flight, post-flight, and other periodic aircraft inspections.

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 7.

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 Environmental and Egress Technician****Job Code****001955****Job Family**

Transportation and Material Moving

NOC

TBD

Short Title (30 Characters)

AVIA ENVIRONMENTAL EGRESS TEC

Short Title (14 Characters)

SFTY EQUI TECH

Pay Plan

Enlisted

Career Field

AME

Other Relationships and Rules

NEC EXXX series or other NECs as assigned

Job Description

Aviation Environmental and Egress Technicians maintain and repair aircraft systems such as: ejection seats, crash worthy seats, and canopy systems; maintain gaseous and liquid oxygen and nitrogen systems and environmental control systems (aircraft air-conditioning and pressurization systems); maintain ordnance and manage explosive devices (Cartridge Actuated Devices (CAD) and Propellant Actuated Devices (PAD)); configure aircraft for flight schedules; and manage scheduled and unscheduled maintenance. Technicians also perform daily, pre-flight, post-flight, and other periodic aircraft inspections.

DoD Relationship**Group Title**

Aircraft Structures

DoD Code

160300

O*NET Relationship**Occupation Title**

Aviation Inspectors

SOC Code

53-6051.01

Job Family

Transportation and Material Moving

Skills*Equipment Maintenance**Reading Comprehension**Operation and Control**Complex Problem-Solving**Troubleshooting**Operation Monitoring**Quality Control Analysis**Judgment and Decision-Making**Monitoring**Critical Thinking***Abilities***Deductive Reasoning**Dynamic Flexibility**Extent Flexibility**Speed of Closure**Perceptual Speed**Time Sharing**Selective Attention**Category Flexibility**Problem Sensitivity**Inductive Reasoning***CORROSION CONTROL****Paygrade****Task Type****Task Statements**

E4

CORE

Clean aircraft, support equipment, and aircraft related equipment

E4

CORE

Depreserve aircraft, support equipment, and aircraft related equipment

E4

CORE

Inspect aircraft and aircraft components for corrosion

E4

CORE

Perform corrosion prevention procedures

E4

CORE

Perform emergency reclamations

E4

CORE

Preserve aircraft, support equipment, and aircraft related equipment

E4

CORE

Treat aircraft and components for corrosion

EGRESS/EMERGENCY SYSTEMS**Paygrade****Task Type****Task Statements**

E5

CORE

Inspect explosive system components

E4

CORE

Install Cartridge Actuated Devices/Propellant Actuated Devices (CAD/PADs)

E4

CORE

Install explosive system components

E4

CORE

Maintain aircraft portable fire bottles

E4

CORE

Maintain seat pan assemblies

E6

CORE

Manage egress system checkout programs

E6

CORE

Manage explosive devices

E6

CORE

Manage Explosive Handling Personnel Qualification and Certification Program

EGRESS/EMERGENCY SYSTEMS (CONT.)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Perform maintenance on ejection seat parachute systems
E4	CORE	Perform maintenance on ejection seat systems
E4	CORE	Perform maintenance procedures on Dry Bay Fire Suppression Systems (DBFSS)
E4	CORE	Perform maintenance procedures on fire extinguishing systems
E4	CORE	Perform operational check procedures on Dry Bay Fire Suppression Systems (DBFSS)
E4	CORE	Perform operational check procedures on fire extinguishing systems
E4	CORE	Remove Cartridge Actuated Devices/Propellant Actuated Devices (CAD/PADs)
E4	CORE	Remove explosive system components
E5	CORE	Supervise arming evolutions
E5	CORE	Supervise de-arming evolutions
E5	CORE	Supervise egress/emergency systems maintenance
E6	CORE	Supervise emergency reclamations
E5	CORE	Supervise ordnance maintenance
E5	CORE	Troubleshoot Dry Bay Fire Suppression Systems (DBFSS)
E5	CORE	Troubleshoot fire extinguishing systems
E6	CORE	Verify high time components

MAINTENANCE ADMINISTRATION

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E7	CORE	Assign aircraft to flight schedules
E7	CORE	Conduct maintenance meetings
E7	CORE	Configure aircraft for flight schedules
E7	CORE	Control aircraft acceptance inspections
E7	CORE	Coordinate Flight Deck (FD)/Flight Line (FL) operations
E4	CORE	Document maintenance actions
E7	CORE	Manage Maintenance Control (MC) operations
E6	CORE	Manage scheduled maintenance
E6	CORE	Manage unscheduled maintenance
E7	CORE	Prepare Planned Maintenance Intervals (PMI) for aircraft
E7	CORE	Prepare Standard Depot Level Maintenance (SDLM) for aircraft
E7	CORE	Release aircraft safe for flight
E4	CORE	Review Aircraft Discrepancy Books (ADB)
E6	CORE	Review Monthly Maintenance Plans (MMP)
E5	CORE	Revise monthly maintenance plans
E7	CORE	Screen work orders or Visual Information Display System/Maintenance Action Forms (VIDS/MAF)
E6	CORE	Verify Functional Check Flight (FCF) requirements
E4	CORE	Verify ordnance utilizing Cartridge Actuated Devices/Propellant Actuated Devices (CAD/PAD) program

MECHANICAL MAINTENANCE

<u>Pavgrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Perform maintenance procedures on air conditioning systems
E4	CORE	Perform maintenance procedures on anti-gravity systems
E4	CORE	Perform maintenance procedures on anti-ice/ rain removal systems
E4	CORE	Perform maintenance procedures on avionics and ground equipment cooling systems
E4	CORE	Perform maintenance procedures on avionics Liquid Cooling Systems (LCS)
E4	CORE	Perform maintenance procedures on bleed air leak detection systems
E4	CORE	Perform maintenance procedures on cabin pressurization systems
E4	CORE	Perform maintenance procedures on cabin seal systems
E4	CORE	Perform maintenance procedures on canopy defog systems
E4	CORE	Perform maintenance procedures on canopy seal systems
E4	CORE	Perform maintenance procedures on cockpit furnishings
E4	CORE	Perform maintenance procedures on crash worthy seats
E4	CORE	Perform maintenance procedures on crew relief systems
E4	CORE	Perform maintenance procedures on de-icing systems
E4	CORE	Perform maintenance procedures on emergency canopy systems
E4	CORE	Perform maintenance procedures on engine bleed air systems
E4	CORE	Perform maintenance procedures on Environmental Control Systems (ECS)
E4	CORE	Perform maintenance procedures on galley systems
E4	CORE	Perform maintenance procedures on normal canopy systems
E4	CORE	Perform maintenance procedures on potable water systems
E4	CORE	Perform maintenance procedures on radar pressurization systems
E4	CORE	Perform maintenance procedures on ram air systems
E4	CORE	Perform maintenance procedures on wave guide systems
E4	CORE	Perform maintenance procedures windshield wash systems
E4	CORE	Perform operational check procedures on air conditioning systems
E4	CORE	Perform operational check procedures on aircraft defog systems
E4	CORE	Perform operational check procedures on anti-ice/rain removal systems
E4	CORE	Perform operational check procedures on avionics and ground equipment cooling systems
E4	CORE	Perform operational check procedures on avionics Liquid Cooling Systems (LCS)
E4	CORE	Perform operational check procedures on bleed air leak detection systems
E4	CORE	Perform operational check procedures on cabin pressurization systems
E4	CORE	Perform operational check procedures on cabin seal systems
E4	CORE	Perform operational check procedures on canopy seal systems
E4	CORE	Perform operational check procedures on cockpit furnishings
E4	CORE	Perform operational check procedures on crash worthy seats
E4	CORE	Perform operational check procedures on crew relief systems

MECHANICAL MAINTENANCE (CONT.)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Perform operational check procedures on de-icing systems
E4	CORE	Perform operational check procedures on engine bleed air systems
E4	CORE	Perform operational check procedures on Environmental Control Systems (ECS)
E4	CORE	Perform operational check procedures on galley systems
E4	CORE	Perform operational check procedures on normal canopy systems
E4	CORE	Perform operational check procedures on potable water systems
E4	CORE	Perform operational check procedures on radar pressurization systems
E4	CORE	Perform operational check procedures on ram air systems
E4	CORE	Perform operational check procedures on wave guide systems
E4	CORE	Perform operational check procedures on windshield wash systems
E5	CORE	Troubleshoot air conditioning systems
E5	CORE	Troubleshoot aircraft defog systems
E5	CORE	Troubleshoot anti-gravity systems
E5	CORE	Troubleshoot anti-ice/rain removal systems
E5	CORE	Troubleshoot avionics and ground equipment cooling systems
E5	CORE	Troubleshoot avionics Liquid Cooling Systems (LCS)
E5	CORE	Troubleshoot bleed air leak detection systems
E5	CORE	Troubleshoot cabin pressurization systems
E5	CORE	Troubleshoot cabin seal systems
E5	CORE	Troubleshoot canopy seal systems
E5	CORE	Troubleshoot cockpit furnishings
E5	CORE	Troubleshoot crash worthy seats
E5	CORE	Troubleshoot crew relief systems
E5	CORE	Troubleshoot de-icing systems
E5	CORE	Troubleshoot engine bleed air systems
E5	CORE	Troubleshoot Environmental Control Systems (ECS)
E5	CORE	Troubleshoot galley systems
E5	CORE	Troubleshoot normal canopy systems
E5	CORE	Troubleshoot potable water systems
E5	CORE	Troubleshoot radar pressurization systems
E5	CORE	Troubleshoot ram air systems
E5	CORE	Troubleshoot wave guide systems
E5	CORE	Troubleshoot windshield wash systems
E5	CORE	Troubleshooting emergency canopy systems

OXYGEN, NITROGEN, AND LIQUID OXYGEN SYSTEMS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E6	CORE	Manage Aviators Breathing Oxygen (ABO) program
E4	CORE	Perform maintenance procedures on gaseous oxygen systems
E4	CORE	Perform maintenance procedures on Liquid Oxygen (LOX) systems

OXYGEN, NITROGEN, AND LIQUID OXYGEN SYSTEMS (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Perform maintenance procedures on On-Board Inert Gas Generating Systems (OBIGGS)
E4	CORE	Perform maintenance procedures on On-Board Oxygen Generating Systems (OBOGS)
E4	CORE	Perform operational check procedures on gaseous oxygen systems
E4	CORE	Perform operational check procedures on Liquid Oxygen (LOX) systems
E4	CORE	Perform operational check procedures on On-Board Inert Gas Generating Systems (OBIGGS)
E4	CORE	Perform operational check procedures on On-Board Oxygen Generating Systems (OBOGS)
E5	CORE	Troubleshoot gaseous oxygen systems
E5	CORE	Troubleshoot Liquid Oxygen (LOX) systems
E5	CORE	Troubleshoot On-Board Inert Gas Generating Systems (OBIGGS)
E5	CORE	Troubleshoot On-Board Oxygen Generating Systems (OBOGS)

QUALITY ASSURANCE (QA)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E6	CORE	Audit Naval Aviation Maintenance Programs (NAMP)
E5	CORE	Comply with technical directives
E4	CORE	Comply with technical publication requirements
E5	CORE	Conduct aircraft acceptance inspections
E4	CORE	Conduct aircraft daily inspections
E5	CORE	Conduct aircraft special inspections
E5	CORE	Conduct aircraft transfer inspections
E4	CORE	Conduct aircraft turnaround inspections
E5	CORE	Conduct Collateral Duty Inspector (CDI) inspections
E5	CORE	Conduct Collateral Duty Quality Assurance Representative (CDQAR) inspections
E5	CORE	Conduct conditional inspections
E5	CORE	Conduct phase inspections
E6	CORE	Conduct Quality Assurance (QA) inspections
E4	CORE	Conduct Support Equipment (SE) inspections (e.g., daily, preoperational, etc.)
E5	CORE	Conduct visual inspections of aircraft internal components
E6	CORE	Coordinate phase maintenance
E5	CORE	Inspect arming evolutions
E5	CORE	Inspect de-arming evolutions
E5	CORE	Inspect egress/emergency systems maintenance
E5	CORE	Inspect ordnance maintenance
E6	CORE	Manage Naval Aviation Maintenance Programs (NAMP)