

CHAPTER 7



AVIATION STRUCTURAL MECHANIC (AM)

NAVPERS 18068-7H
CH-68

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NAVY ENLISTED OCCUPATIONAL STANDARD

FOR

AVIATION STRUCTURAL MECHANIC (SAFETY EQUIPMENT) (AME)



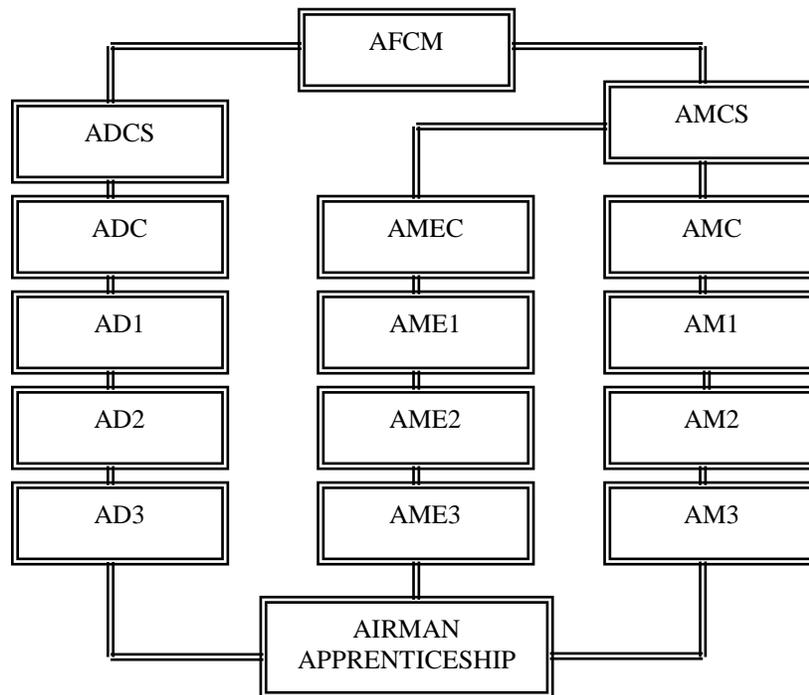
SCOPE OF RATING

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, shoulder harnesses, and lap belts; 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 83XX and 88XX Series

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**Troubleshooting**Quality Control Analysis**Judgment and Decision Making**Critical Thinking**Monitoring**Reading Comprehension**Coordination**Equipment Selection**Operation and Control***Abilities***Dynamic Flexibility**Extent Flexibility**Selective Attention**Category Flexibility**Deductive Reasoning**Inductive Reasoning**Problem Sensitivity**Oral Expression**Flexibility of Closure**Manual Dexterity***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**

E6

CORE

Initiate emergency reclamations

E4

CORE

Maintain aircraft portable fire bottles

E4

CORE

Maintain Cartridge Actuated Devices (CAD)

E4

CORE

Maintain Dry Bay Fire Suppression Systems (DBFSS)

E4

CORE

Maintain ejection seat parachute systems

E4

CORE

Maintain ejection seat systems

E4

CORE

Maintain fire extinguishing systems

E4

NON-CORE

Maintain Flexible Linear Shape Charges (FLSC)

EGRESS/EMERGENCY SYSTEMS (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Maintain Propellant Actuated Devices (PAD)
E4	CORE	Maintain seat pan assemblies
E4	CORE	Maintain Shielded Mild Detonating Cords (SMDC)
E4	CORE	Maintain Thin Layer Explosives (TLX)
E6	CORE	Manage egress system checkout programs
E6	CORE	Manage explosive devices
E5	CORE	Supervise arming evolutions
E5	CORE	Supervise de-arming evolutions
E5	CORE	Supervise egress/emergency systems maintenance
E5	CORE	Supervise ordnance maintenance
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
E7	CORE	Manage scheduled maintenance
E7	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)
E5	CORE	Review Monthly Maintenance Plans (MMP)
E7	CORE	Screen Visual Information Display System/Maintenance Action Forms (VIDS/MAF)
E5	CORE	Update monthly maintenance plans
E6	CORE	Verify Functional Check Flight (FCF) requirements

MECHANICAL MAINTENANCE

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Maintain air conditioning systems
E4	CORE	Maintain anti-gravity systems
E4	CORE	Maintain avionics and ground equipment cooling systems
E4	CORE	Maintain avionics Liquid Cooling Systems (LCS)
E4	CORE	Maintain cabin pressurization systems
E4	CORE	Maintain canopy defog systems

MECHANICAL MAINTENANCE (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Maintain canopy seal systems
E4	CORE	Maintain cockpit furnishings
E4	CORE	Maintain crash worthy seats
E4	CORE	Maintain de-icing systems
E4	CORE	Maintain emergency canopy systems
E4	CORE	Maintain engine bleed air systems
E4	CORE	Maintain Environmental Control Systems (ECS)
E4	CORE	Maintain normal canopy systems
E4	CORE	Maintain radar pressurization systems
E4	CORE	Maintain rain removal systems
E4	CORE	Maintain ram air systems
E4	CORE	Maintain wave guide systems
E4	CORE	Maintain windshield wash systems

OXYGEN, NITROGEN, AND LIQUID OXYGEN SYSTEMS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Maintain gaseous oxygen systems
E4	CORE	Maintain Liquid Oxygen (LOX) systems
E4	NON-CORE	Maintain nitrogen systems
E4	NON-CORE	Maintain On-Board Inert Gas Generating Systems (OBIGGS)
E4	CORE	Maintain On-Board Oxygen Generating Systems (OBOGS)
E6	CORE	Manage Aviators Breathing Oxygen (ABO) programs

QUALITY ASSURANCE (QA)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E6	CORE	Audit Naval Aviation Maintenance Programs (NAMP)
E5	NON-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 conditional inspections
E5	CORE	Conduct phase inspections
E5	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
E6	CORE	Inspect arming evolutions
E6	CORE	Inspect de-arming evolutions

QUALITY ASSURANCE (QA) (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E6	CORE	Inspect egress/emergency systems maintenance
E6	CORE	Inspect ordnance maintenance
E6	CORE	Manage Naval Aviation Maintenance Programs (NAMP)