

CHAPTER 35

FIREMAN (FN)

NAVPERS 18068-35B
CH-90

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NAVY ENLISTED OCCUPATIONAL STANDARDS

FOR

FIREMAN (FN)

APPRENTICESHIP

SCOPE OF RATING

Firemen (FN) stand engineering watches; clean, paint, and preserve engineering spaces and equipment; perform minor maintenance and repairs to engineering equipment; operate tools and test equipment; record readings of gages; and read and use engineering drawings.

This Occupational Standard is to be incorporated in Chapter 35, Part B, of the Manual of Navy Enlisted Manpower and Personnel Classifications and Occupational Standards (NAVPERS 18068F) as Chapter 35.

PATHS OF ADVANCEMENT

Per NAVADMIN 275/19, Professional Career Apprenticeship Track (PACT) Sailors will receive rating designating based upon the billet for which they are selected in MyNavy Assignment (MNA).

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**Fireman****Job Code****002689****Job Family**

Installation, Maintenance, and Repair

NOC

TBD

Short Title (30 Characters)

FIREMAN

Short Title (14 Characters)

FIREMAN

Pay Plan

ENLISTED

Career Field

FN

Other Relationships and Rules

N/A

Job Description

Firemen (FN) stand engineering watches; clean engineering spaces and equipment; make minor repairs to engineering equipment; record readings of gages; participate in general drills; and perform general detail duties.

DoD Relationship**Group Title**

Non-Occupational

DoD Code

190000

O*NET Relationship**Occupation Title**Maintenance and Repair Workers,
General**SOC Code**

49-9042.00

Job FamilyInstallation, Maintenance, and
Repair**Skills***Active Learning**Operation and Control**Operation Monitoring**Judgment and Decision Making**Critical Thinking**Equipment Maintenance**Reading Comprehension**Systems Analysis**Equipment Selection**Quality Control Analysis***Abilities***Written Comprehension**Inductive Reasoning**Memorization**Manual Dexterity**Spatial Orientation**Visualization**Information Ordering**Near Vision**Deductive Reasoning**Problem Sensitivity***DAMAGE CONTROL****Paygrade****Task Type****Task Statements**

E3

CORE

Align installed educators to dewater spaces

E3

CORE

Assist with ballasting

E3

CORE

Explain the purpose and use of common Damage Control (DC) equipment

E3

CORE

Inspect emergency breathing equipment

E3

CORE

Perform the general responsibilities of a Damage Control (DC) rapid response team member (e.g., isolating ventilation systems, closing compartments, mechanical isolation, etc.)

ELECTRICAL SYSTEMS OPERATIONS**Paygrade****Task Type****Task Statements**

E3

CORE

Explain principles of electrical safety programs

E3

CORE

Identify functions and characteristics of electrical equipment associated with engineering plants (e.g., fuses, circuit breakers, switches, etc.)

E3

CORE

Isolate electrical components in ship compartments

E3

CORE

Locate electrical distribution system components (e.g., generator, switchboard, load centers, etc.)

E3

CORE

Locate power sources

E3

CORE

Secure power at appropriate power source(s)

ENGINEERING DRAWINGS ANALYSIS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E3	CORE	Describe damage control symbology, methods, and procedures of plotting
E3	CORE	Interpret Damage Control (DC) and Engineering Operating Sequencing System (EOSS) drawings
E3	CORE	Interpret multi-view working drawings/tech manuals
E3	CORE	Verify accuracy and currency of Engineering Operating Sequencing System (EOSS) drawings

MECHANICAL MAINTENANCE

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E3	CORE	Apply lubricating oils and greases
E3	CORE	Fabricate gaskets
E3	CORE	Identify basic types and functions of valves
E3	CORE	Identify drive train components (e.g., clutch controllable pitch propeller system, reduction gear, etc.)
E3	CORE	Identify Material Identification Code (MIC) level one systems (e.g., controlled materials, boundaries, etc.)
E3	CORE	Inspect flange shield
E3	CORE	Inspect gaskets
E3	CORE	Interpret basic engineering principles and theories (e.g., energy and power, velocity and acceleration, pressure and vacuum, etc.)
E3	CORE	Interpret gages, indicators, and thermometers
E3	CORE	Interpret principles of basic steam cycles
E3	CORE	Maintain hand tools
E3	CORE	Maintain strainers
E3	CORE	Maintain valves in low-pressure systems
E3	CORE	Operate chain hoists and jacks
E3	CORE	Operate electric and pneumatic power tools
E3	CORE	Replace flange shield
E3	CORE	Take oil samples
E3	CORE	Take soundings (e.g., compartments, tanks, voids, etc.)
E3	CORE	Trace path of air and fuel through multiple support systems
E3	CORE	Trace path of main steam from boiler to engine and back to boiler

MECHANICAL SYSTEMS OPERATIONS

<u>Pavgrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E3	CORE	Align auxiliary equipment (e.g., hydraulic pumps, line shaft bearings, condensers, etc.)
E3	CORE	Align main propulsion equipment (e.g., lube oil pumps, generators, purifiers, etc.)
E3	CORE	Identify functions and characteristics of mechanical systems (e.g., steering, elevators, anchor windlasses, etc.)
E3	CORE	Monitor auxiliary equipment (e.g., hydraulic pumps, line shaft bearings, condensers, etc.)
E3	CORE	Monitor main propulsion equipment (e.g., lube oil pumps, generators, purifiers, etc.)
E3	CORE	Secure auxiliary equipment (e.g., hydraulic pumps, line shaft bearings, condensers, etc.)
E3	CORE	Secure main propulsion equipment (e.g., lube oil pumps, generators, purifiers, etc.)
E3	CORE	Start auxiliary equipment (e.g., hydraulic pumps, line shaft bearings, condensers, etc.)
E3	CORE	Start main propulsion equipment (e.g., lube oil pumps, generators, purifiers, etc.)
E3	CORE	Trace ship's ventilation systems (i.e. supply, exhaust, recirculation)

PLANT SAFETY

<u>Pavgrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E3	CORE	Clean engineering spaces and equipment
E3	CORE	Conduct Engineering Operating Sequencing System (EOSS) pre-op checks
E3	CORE	Describe engineering space special precautions (e.g., hazards of moving machinery, flammable liquids, electrical equipment, steam, etc.)
E3	CORE	Record space temperatures
E3	CORE	State the purpose of the Hearing Conservation Program (HCP) and training requirements
E3	CORE	State the purpose of the Heat Stress Program and training requirements
E3	CORE	State the purpose of the Sight Conservation Program and training requirements

WATCHSTANDING AND ORGANIZATION

<u>Pavgrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E3	CORE	Describe organizational structure of the engineering department
E3	CORE	Describe the roles and responsibilities of in port and at sea engineering watches
E3	CORE	Perform the duties of a fire watch
E3	CORE	Perform the duties of a phone talker
E3	CORE	Stand engineering watches