CHAPTER 35

FIREMAN
(FN)

NAVPERS 18068-35B
CH-90

Updated: April 2022

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FIREMAN (FN)

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	NOC	Short Title (30 Characters)	Short Title (14 Characters)
Installation, Maintenance, and Repair	TBD	FIREMAN	FIREMAN

Pay Plan	Career Field	Other Relationships and Rules
ENLISTED	FN	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	*DoD Code*
Non-Occupational	190000

O*NET Relationship

Occupation Title	*SOC Code*	*Job Family*
Maintenance and Repair Workers, General	49-9042.00	Installation, Maintenance, and Repair

Skills	Abilities
Active Learning	*Written Comprehension*
Operation and Control	*Inductive Reasoning*
Operation Monitoring	*Memorization*
Judgment and Decision Making	*Manual Dexterity*
Critical Thinking	*Spatial Orientation*
Equipment Maintenance	*Visualization*
Reading Comprehension	*Information Ordering*
Systems Analysis	*Near Vision*
Equipment Selection	*Deductive Reasoning*
Quality Control Analysis	*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

Paygrade	Task Type	Task Statements
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

Paygrade	Task Type	Task Statements
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

Paygrade	Task Type	Task Statements
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

Paygrade	Task Type	Task Statements
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

Paygrade	Task Type	Task Statements
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