

CHAPTER 35

FIREMAN (FN)

NAVPERS 18068-35A
CH-52

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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 OF ENLISTED PERSONNEL
CAREER PATHS FOR THE FIREMAN (FN) APPRENTICESHIP**

RATING TITLE	E-4	E-5	E-6	E-7	E-8	E-9
DAMAGE CONTROLMAN	DC3	DC2	DC1	DCC	DCCS	DCCM
ELECTRICIAN'S MATE	EM3	EM2	EM1	EMC	EMCS	EMCM
ENGINEMAN	EN3	EN2	EN1	ENC	ENCS	ENCM
GAS TURBINE SYSTEM TECHNICIAN	GSE3 GSM3	GSE2 GSM2	GSE1 GSM1	GSEC GSMC	GSCS	GSCM
HULL MAINTENANCE TECHNICIAN	HT3	HT2	HT1	HTC	HTCS	HTCM
MACHINERY REPAIRMAN	MR3	MR2	MR1	MRC	MRCS	MRCM
MACHINIST'S MATE	MM3	MM2	MM1	MMC	MMCS	MMCM

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.

NEBC Job Title

Fireman

NEBC Job Code

002689

Job Family

Installation, Maintenance, and Repair

NOC

TBD

Short Title (30 Characters)

FIREMAN

Short Title (10 Characters)

FIREMAN

Pay Plan

ENLISTED

Career Field

FN

Other Relationships and Rules

N/A

Job Description

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.

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 Family

Installation, Maintenance, and Repair General

Skills

Active Learning
Equipment Maintenance
Equipment Selection
Installation
Operation and Control
Operation Monitoring
Reading Comprehension
Repairing
Social Perceptiveness
Speaking

Abilities

Deductive Reasoning
Dynamic Strength
Information Ordering
Memorization
Oral Comprehension
Oral Expression
Spatial Orientation
Speech Clarity
Visual Color Discrimination
Written Comprehension

ELECTRICAL SYSTEMS OPERATIONS

Paygrade

E3

Task Type

CORE

Task Statements

Identify functions and characteristics of electrical equipment associated with engineering plants (fuses, circuit breakers, switches, controllers, panels and boxes, switchboards, and distribution)

ENGINEERING DRAWINGS ANALYSIS

Paygrade

E3

Task Type

CORE

Task Statements

Know damage control symbology, methods, and procedures of plotting

E3

CORE

Read and use Damage Control (DC) and Engineering Operating Sequencing System (EOSS) drawings

E3

CORE

Read multi-view working drawings

MECHANICAL MAINTENANCE

Paygrade

E3

Task Type

CORE

Task Statements

Identify basic types and component parts of ship propulsion systems

E3

CORE

Identify basic types and functions of valves

E3

CORE

Identify drive train components including clutch, controllable pitch propeller system, reduction gear, and brake

E3

CORE

Inspect and maintain strainers

E3	CORE	Interpret basic principles of: mass, weight and inertia, force, energy and power, speed, velocity and acceleration, pressure and vacuum, hydraulics and pneumatics, combustion, heat, and temperature
E3	CORE	Interpret principles of main and auxiliary steam cycles
E3	CORE	Perform minor engine maintenance
E3	CORE	Take soundings (compartments, tanks, voids, etc.)
E3	CORE	Read and interpret gages, indicators, and thermometers
E3	CORE	Replace gaskets and repack valves in low pressure systems
E3	CORE	Test tanks and voids for presence of water
E3	CORE	Trace path of air and fuel through gas engines naming essential components through which they pass
E3	CORE	Trace path of main steam from boiler to engine and back to boiler, naming essential fittings, piping, and main machinery through which it passes
E3	CORE	Use and maintain hand tools
E3	CORE	Use chain hoists and jacks
E3	CORE	Use electric and pneumatic power tools
E3	CORE	Use lubricating oils and greases

MECHANICAL SYSTEMS OPERATIONS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E3	CORE	Identify functions and characteristics of mechanical systems (refrigeration equipment, anchor windlasses, distilling plants, compressors, steering, cranes, elevators, winches, fire main and flushing, and fresh water)
E3	CORE	Identify functions of auxiliary equipment (air compressors, distilling plants, refrigeration plants, lube oil coolers, main and auxiliary condensers, air ejector condenser assembly, AC and DC generators and motors, pumps, line shaft bearings, stern tube, sytron seal, strut bearing, thrust bearing, jacking gear, and electro-hydraulic gear)
E3	CORE	Know ship's ventilation systems (supply, exhaust, and recirculation)
E3	CORE	Locate auxiliary equipment (air compressors, distilling plants, refrigeration plants, lube oil coolers, main and auxiliary condensers, air ejector condenser assembly, AC and DC generators and motors, pumps, line shaft bearings, stern tube, sytron seal, strut bearing, thrust bearing, jacking gear, and electro-hydraulic gear)
E3	CORE	Locate mechanical systems (refrigeration equipment, anchor windlasses, distilling plants, compressors, steering, cranes, elevators, winches, fire main and flushing, and fresh water)
E3	CORE	Operate centrifugal, reciprocating, and rotary pumps

NAVAL ORIENTATION AND ORGANIZATION

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E3	CORE	Identify organizational structure of the engineering department

WATCHSTANDING

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E3	CORE	Stand engineering watches