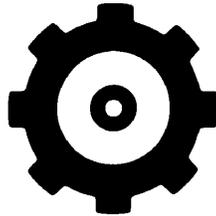


CHAPTER 30



ENGINEMAN (EN)

NAVPERS 18068-30E
CH-60

Updated: October 2014

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NAVY ENLISTED OCCUPATIONAL STANDARD

FOR
ENGINEMAN (EN)



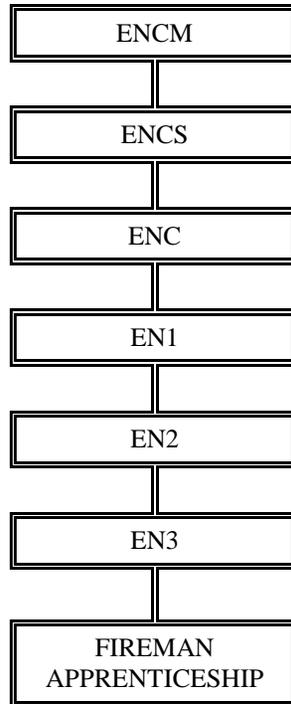
SCOPE OF RATING

Enginemen (EN) operate, maintain, and repair (organizational and intermediate level) internal-combustion engines, main propulsion machinery, small craft clutches, transmissions, drive shafts, auxiliary propulsion support equipment, and other assigned equipment on Navy ships.

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 30.

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**Diesel Engine Systems Maintainer****Job Code****003653****Job Family**

Installation, Maintenance, and Repair Occupations

NOC

TBD

Short Title (30 Characters)

DIESEL ENGINE SYS MAINT

Short Title (14 Characters)

DIESEL SYS MNT

Pay Plan

Enlisted

Career Field

EN

Other Relationships and Rules

Not applicable, based upon the NEC assigned to the job (if any).

Job Description

Diesel Engine Maintainers operate and maintain internal-combustion engines, steering systems, and air compressors used aboard Navy ships.

DoD RelationshipGroup Title

Auxiliaries

DoD Code

165200

O*NET RelationshipOccupation Title

Motorboat Mechanics and Service Technicians

SOC Code

49-3051.00

Job Family

Installation, Maintenance, and Repair Occupations

Skills*Equipment Maintenance**Equipment Selection**Operation and Control**Operation Monitoring**Reading Comprehension**Monitoring**Quality Control Analysis**Writing**Repairing*

UNASSIGNED

Abilities*Manual Dexterity**Problem Sensitivity**Multi-limb Coordination**Selective Attention**Written Comprehension**Near Vision**Oral Comprehension**Visual Color Discrimination**Written Expression*

UNASSIGNED

ENGINEERING MANAGEMENT**Paygrade****Task Type****Task Statements**

E6

CORE

Prepare Casualty Reports (CASREP)

E7

CORE

Review Casualty Reports (CASREP)

E4

CORE

Review Engineering Operational Casualty Control (EOCC) procedures

E4

CORE

Review Engineering Operational Procedures (EOP)

E4

CORE

Review Engineering Operational Sequencing System (EOSS) manuals

MECHANICAL MAINTENANCE**Paygrade****Task Type****Task Statements**

E4

CORE

Draw fluid samples

E4

CORE

Maintain air dryer systems

E4

CORE

Maintain auxiliary cooling water systems

E4

CORE

Maintain compressed air systems

E4

CORE

Maintain diaphragm control valves

E5

CORE

Maintain diesel engines

E5

CORE

Maintain emergency shutdown devices

E4

CORE

Maintain engine air systems

E4

CORE

Maintain engine starting systems

E4

NON-CORE

Maintain firemain systems

E4

CORE

Maintain flange shields

E4	CORE	Maintain hydraulic systems
E4	CORE	Maintain jacking gears
E4	CORE	Maintain main drainage systems
E4	CORE	Maintain main Lube Oil (LO) systems
E4	CORE	Maintain main propulsion shafts
E4	CORE	Maintain oil purification systems
E4	CORE	Maintain oil service systems
E4	CORE	Maintain oil transfer systems
E4	CORE	Maintain piping systems
E4	CORE	Maintain reducing stations
E4	CORE	Maintain secondary drainage systems
E5	CORE	Maintain system pumps
E4	CORE	Maintain system valves
E4	CORE	Maintain tank stripping systems
E4	NON-CORE	Maintain tanks and voids
E4	CORE	Replace flexible couplings

MECHANICAL SYSTEMS OPERATIONS

<u>Pavgrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Inspect fluid samples
E4	CORE	Maintain oily waste water systems
E4	CORE	Maintain seawater circulating systems
E4	CORE	Maintain seawater service strainers
E4	CORE	Operate air compressors
E4	CORE	Operate air dryer systems
E4	CORE	Operate auxiliary cooling water systems
E4	CORE	Operate auxiliary seawater circulating systems
E4	CORE	Operate diesel engines
E4	CORE	Operate fire pumps
E4	CORE	Operate firemain systems
E4	CORE	Operate Fuel Oil (FO) and Lube Oil (LO) service systems
E4	CORE	Operate heating systems
E4	CORE	Operate jacking gears
E4	CORE	Operate main drainage systems
E4	CORE	Operate main shafts
E4	CORE	Operate oily waste water systems
E4	CORE	Operate reducing stations
E4	CORE	Operate seawater service strainers
E4	CORE	Operate secondary drainage systems
E4	CORE	Operate stripping systems
E4	CORE	Operate ventilation systems

Job Title**Diesel Engine Systems Technician****Job Code****003179****Job Family**

Installation, Maintenance, and Repair Occupations

NOC

TBD

Short Title (30 Characters)

DIESEL ENGINE SYS TEC

Short Title (14 Characters)

DIESEL SYS TEC

Pay Plan

Enlisted

Career Field

EN

Other Relationships and Rules

Not applicable, based upon the NEC assigned to the job (if any).

Job Description

Diesel Engine Systems Technicians repair, maintain, and service engines, machinery, and components used aboard Navy ships.

DoD Relationship**O*NET Relationship****Group Title**

Auxiliaries

DoD Code

165200

Occupation Title

Motorboat Mechanics and Service Technicians

SOC Code

49-3051.00

Job Family

Installation, Maintenance, and Repair Occupations

Skills*Equipment Selection**Equipment Maintenance**Operation and Control**Operation Monitoring**Quality Control Analysis**Monitoring**Reading Comprehension**Writing**Repairing**Complex Problem Solving***Abilities***Manual Dexterity**Problem Sensitivity**Multi-limb Coordination**Written Expression**Information Ordering**Written Comprehension**Deductive Reasoning**Selective Attention**Oral Comprehension**Inductive Reasoning***ENGINEERING MANAGEMENT****Paygrade****Task Type****Task Statements**

E6

CORE

Prepare Casualty Reports (CASREP)

E5

NON-CORE

Prepare fuel, oil, and water reports

E7

CORE

Review Casualty Reports (CASREP)

E4

CORE

Review Engineering Operational Casualty Control (EOCC) procedures

E4

CORE

Review Engineering Operational Procedures (EOP)

E4

CORE

Review Engineering Operational Sequencing System (EOSS) manuals

MECHANICAL MAINTENANCE**Paygrade****Task Type****Task Statements**

E4

CORE

Draw fluid samples

E4

CORE

Maintain air dryer systems

E4

CORE

Maintain auxiliary cooling water systems

E4

CORE

Maintain compressed air systems

E4

CORE

Maintain diaphragm control valves

E5

CORE

Maintain diesel engines

E5

CORE

Maintain emergency shutdown devices

E4

CORE

Maintain engine air systems

E4

CORE

Maintain engine starting systems

E4

CORE

Maintain hydraulic systems

E4

CORE

Maintain jacking gears

E5	NON-CORE	Maintain Lube Oil (LO) pressure alarms
E5	CORE	Maintain machinery clutches
E5	CORE	Maintain machinery speed limiting devices
E5	CORE	Maintain machinery transmissions
E4	CORE	Maintain main Lube Oil (LO) systems
E4	CORE	Maintain oil purification systems
E4	CORE	Maintain oil service systems
E5	CORE	Maintain propeller pitch control units
E5	CORE	Maintain system pumps
E4	CORE	Maintain tank stripping systems
E5	CORE	Maintain turbo chargers
E6	NON-CORE	Plug heat exchanger tubes
E6	NON-CORE	Repair jacking gear components
E5	CORE	Repair mechanical and hydraulic system components
E5	NON-CORE	Replace jacking gear components
E5	NON-CORE	Replace main shaft components
E5	CORE	Replace mechanical and hydraulic system components
E5	CORE	Test heat exchanger tubes hydrostatically

MECHANICAL SYSTEMS OPERATIONS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Maintain oily waste water systems
E4	CORE	Maintain seawater circulating systems
E4	CORE	Operate air compressors
E4	CORE	Operate air dryer systems
E4	CORE	Operate auxiliary cooling water systems
E4	CORE	Operate auxiliary seawater circulating systems
E4	CORE	Operate diesel engines
E4	CORE	Operate fire pumps
E4	CORE	Operate firemain systems
E4	CORE	Operate Fuel Oil (FO) and Lube Oil (LO) service systems
E4	CORE	Operate heating systems
E4	CORE	Operate jacking gears
E4	CORE	Operate main shafts
E4	CORE	Operate oily waste water systems
E4	CORE	Operate stripping systems
E4	CORE	Operate ventilation systems

QUALITY ASSURANCE

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E7	CORE	Approve Quality Assurance (QA) repair forms
E5	CORE	Prepare Quality Assurance (QA) repair forms
E6	CORE	Review Quality Assurance (QA) repair forms
E6	CORE	Update Quality Assurance (QA) repair forms

Job Title
Diesel Engine Systems Manager

Job Code
003102

Job Family Installation, Maintenance, and Repair Occupations	NOC TBD	Short Title (30 Characters) DIESEL ENGINE SYS MGR	Short Title (14 Characters) DIESEL SYS MGR
Pay Plan Enlisted	Career Field EN	Other Relationships and Rules Not applicable, based upon the NEC assigned to the job (if any).	

Job Description
 Diesel Engine Systems Managers provide overall management by reviewing, approving, and managing engine operations and programs aboard Navy ships.

DoD Relationship		O*NET Relationship		
<i>Group Title</i> Auxiliaries	<i>DoD Code</i> 165200	<i>Occupation Title</i> First Line Supervisors of Mechanics, Installers, and Repairers	<i>SOC Code</i> 49-1011.00	<i>Job Family</i> Installation, Maintenance, and Repair Occupations

Skills	Abilities
<i>Monitoring</i>	<i>Written Expression</i>
<i>Reading Comprehension</i>	<i>Deductive Reasoning</i>
<i>Writing</i>	<i>Information Ordering</i>
<i>Quality Control Analysis</i>	<i>Written Comprehension</i>
<i>Operation Monitoring</i>	<i>Category Flexibility</i>
<i>Coordination</i>	<i>Manual Dexterity</i>
<i>Critical Thinking</i>	<i>Oral Comprehension</i>
<i>Equipment Maintenance</i>	<i>Inductive Reasoning</i>
<i>Equipment Selection</i>	<i>Mathematical Reasoning</i>
<i>Management of Material Resources</i>	<i>Multi-limb Coordination</i>

ENGINEERING MANAGEMENT

Paygrade	Task Type	Task Statements
E7	CORE	Evaluate engineering management programs
E7	NON-CORE	Maintain environmental pollution control programs
E6	CORE	Prepare Casualty Reports (CASREP)
E5	NON-CORE	Prepare fuel, oil, and water reports
E7	CORE	Prepare shipwide full power and economy trials
E7	CORE	Review Casualty Reports (CASREP)
E6	CORE	Review engineering records and logs
E6	CORE	Update engineering records and logs
E6	CORE	Validate Engineering Operational Sequencing System (EOSS) manuals

MECHANICAL MAINTENANCE

Paygrade	Task Type	Task Statements
E5	CORE	Maintain diesel engines

MECHANICAL SYSTEMS OPERATIONS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Operate diesel engines

QUALITY ASSURANCE

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E7	CORE	Approve Quality Assurance (QA) repair forms
E6	CORE	Review Quality Assurance (QA) repair forms
E6	CORE	Update Quality Assurance (QA) repair forms