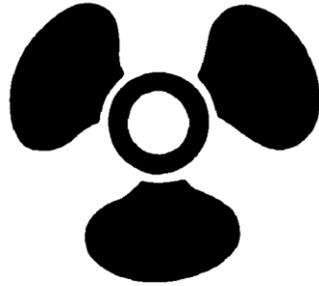


CHAPTER 51



MACHINIST'S MATE (MM)

NAVPERS 18068-51E

CH-44

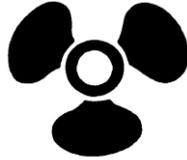
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NAVY ENLISTED OCCUPATIONAL STANDARD

FOR

MACHINIST'S MATE (NUCLEAR) MM(NUC)



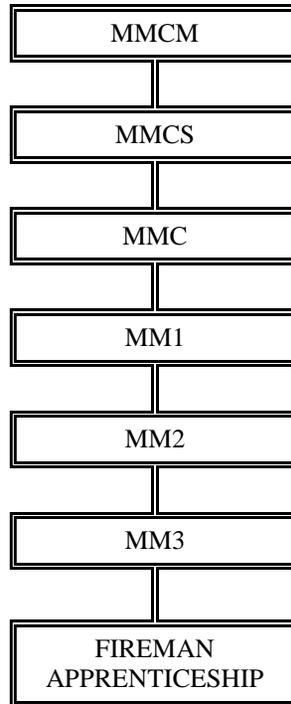
SCOPE OF RATING

Machinist's Mates (Nuclear) MM(NUC) operate and maintain Naval Nuclear propulsion plants and associated equipment; supervise and administer naval nuclear propulsion plant operations; thoroughly understand reactor, electrical, and mechanical theory involved in the operation of the nuclear reactor, steam plant, propulsion plant, and auxiliary equipment; possess a detailed knowledge of reactor and steam plant chemistry and radiological controls; operate, maintain, and repair (organizational and intermediate level) ship propulsion machinery, auxiliary equipment, and outside machinery, such as: air compressors, distilling plants, propulsion turbines, electric power generation turbines, shaft line components, and air conditioning equipment; operate and maintain propulsion plant systems (organizational and intermediate level) such as feed and condensate, steam, hydraulic, seawater systems, air, potable water, lubricating oil and oil purification, reactor auxiliary and support systems, pumps, valves, and heat exchangers; perform tests, transfers, and inventory of lubricating oils, fuels, and water; maintain records and reports; and generate and stow industrial gases on both surface and sub-surface 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 51.

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 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**Propulsion Plant Mechanical Operator****Job Code****003781****Job Family**

Installation, Maintenance, and Repair

NOC

4900-9012.00

Short Title (30 Characters)

SUB PROPULSION PLANT MECH OP

Short Title (10 Characters)

SS PPM OP

Pay Plan

Enlisted

Career Field

MM(NUC)

Proficiency Level

A/J

Other Relationships and Rules:

3355

Job Description

Submarine Propulsion Plant Mechanical Operators operate and perform basic preventive maintenance on propulsion plant mechanical systems, support systems, turbines, pumps, and valves. They possess a thorough understanding of reactor, electrical, and mechanical theory involved in the operation of nuclear reactors, steam plants, and auxiliary equipment. They possess detailed knowledge of chemistry and radiological controls associated with the nuclear reactor. They also monitor operations of the shutdown reactor and propulsion plant. Mechanical Operators perform the critical work functions required to repair and maintain equipment and move naval tactical forces.

DoD Relationship*Title and Group:*

Main Propulsion

165

Code and Area:

165100

16

O*NET Relationship*Title and SOC Code:*Control and Valve Installers and
Repairers, Except Mechanical door
49-9012.00*Name and Family Code:*Installation, Maintenance, and
Repair
49**ENGINEERING MANAGEMENT****Paygrade**

E4

Task Type

CORE

Task Statements

Control nuclear power classified material

Skills*Judgment and Decision Making*
*Management of Material Resources***Abilities***Oral Comprehension*
*Written Comprehension***LABORATORY MANAGEMENT****Paygrade**

E4

Task Type

CORE

Task Statements

Sample condensate systems water

Skills*Quality Control Analysis*
*Operation Monitoring***Abilities***Written Comprehension*
Visual Color Discrimination

E4

CORE

Sample coolant charging systems water

Quality Control Analysis
*Operation Monitoring**Written Comprehension*
Visual Color Discrimination

E4

CORE

Sample coolant discharge systems water

Quality Control Analysis
*Operation Monitoring**Written Comprehension*
Visual Color Discrimination

E4

CORE

Sample demineralized water

Quality Control Analysis
*Operation Monitoring**Written Comprehension*
Visual Color Discrimination

E4

CORE

Sample distilling unit distillate

Quality Control Analysis
*Operation Monitoring**Written Comprehension*
Visual Color Discrimination

E4

CORE

Sample feed systems water

Quality Control Analysis
*Operation Monitoring**Written Comprehension*
Visual Color Discrimination

E4

CORE

Sample fresh water drain collecting water

Quality Control Analysis
*Operation Monitoring**Written Comprehension*
Visual Color Discrimination

E4

CORE

Sample main lube oil

Quality Control Analysis
*Operation Monitoring**Written Comprehension*
Visual Color Discrimination

E4

CORE

Sample potable water

Quality Control Analysis
*Operation Monitoring**Written Comprehension*
Visual Color Discrimination

E4	CORE	Sample reactor plant fresh water	Quality Control Analysis Operation Monitoring	Written Comprehension Visual Color Discrimination
E4	CORE	Sample reserve and make up feed water	Quality Control Analysis Operation Monitoring	Written Comprehension Visual Color Discrimination
E4	CORE	Sample shaft lube oil	Quality Control Analysis Operation Monitoring	Written Comprehension Visual Color Discrimination
E4	CORE	Sample steam generating water	Quality Control Analysis Operation Monitoring	Written Comprehension Visual Color Discrimination
E4	CORE	Sample turbine generator lube oil	Quality Control Analysis Operation Monitoring	Written Comprehension Visual Color Discrimination

MECHANICAL MAINTENANCE

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E5	CORE	Inspect discharge boundary valve alignments	Equipment Maintenance Quality Control Analysis	Near Vision Written Comprehension
E5	CORE	Inspect main steam system components	Equipment Maintenance Quality Control Analysis	Near Vision Written Comprehension
E5	CORE	Inspect pneumatic system components	Equipment Maintenance Quality Control Analysis	Near Vision Written Comprehension
E5	CORE	Inspect potable water system components	Equipment Maintenance Quality Control Analysis	Near Vision Written Comprehension
E5	CORE	Inspect primary shield water system components	Equipment Maintenance Quality Control Analysis	Near Vision Written Comprehension
E5	CORE	Inspect primary valve alignments	Equipment Maintenance Quality Control Analysis	Near Vision Written Comprehension
E4	CORE	Inspect propulsion throttle control system components	Equipment Maintenance Quality Control Analysis	Near Vision Written Comprehension
E4	CORE	Inspect valve operating system components	Equipment Maintenance Quality Control Analysis	Near Vision Written Comprehension
E4	CORE	Preserve propulsion plant valves	Equipment Maintenance Quality Control Analysis	Manual Dexterity Near Vision
E5	CORE	Repair propulsion plant pumps	Repairing Equipment Selection	Arm-Hand Steadiness Manual Dexterity
E5	CORE	Repair propulsion plant valves	Repairing Equipment Selection	Arm-Hand Steadiness Manual Dexterity
E5	CORE	Repair sea water systems	Repairing Equipment Selection	Arm-Hand Steadiness Manual Dexterity
E5	CORE	Repair secondary support systems	Repairing Equipment Selection	Arm-Hand Steadiness Manual Dexterity

E5	CORE	Repair steam systems	<i>Repairing Equipment Selection</i>	<i>Arm-Hand Steadiness Manual Dexterity</i>
E5	CORE	Replace feed system components	<i>Equipment Maintenance Installation</i>	<i>Manual Dexterity Multi-limb Coordination</i>
E5	CORE	Replace fresh water system components	<i>Equipment Maintenance Installation</i>	<i>Manual Dexterity Multi-limb Coordination</i>
E5	CORE	Replace hydraulic system components	<i>Equipment Maintenance Installation</i>	<i>Manual Dexterity Multi-limb Coordination</i>
E5	CORE	Replace lube oil system components	<i>Equipment Maintenance Installation</i>	<i>Manual Dexterity Multi-limb Coordination</i>
E5	CORE	Replace pneumatic system components	<i>Equipment Maintenance Installation</i>	<i>Manual Dexterity Multi-limb Coordination</i>
E5	CORE	Replace primary system components	<i>Equipment Maintenance Installation</i>	<i>Manual Dexterity Multi-limb Coordination</i>
E5	CORE	Replace propulsion plant pumps	<i>Equipment Maintenance Installation</i>	<i>Manual Dexterity Multi-limb Coordination</i>
E5	CORE	Replace propulsion plant valves	<i>Equipment Maintenance Installation</i>	<i>Manual Dexterity Multi-limb Coordination</i>
E5	CORE	Replace sea water system components	<i>Equipment Maintenance Installation</i>	<i>Manual Dexterity Multi-limb Coordination</i>
E5	CORE	Replace secondary support system components	<i>Equipment Maintenance Installation</i>	<i>Manual Dexterity Multi-limb Coordination</i>
E5	CORE	Replace steam system components	<i>Equipment Maintenance Installation</i>	<i>Manual Dexterity Multi-limb Coordination</i>
E5	CORE	Replace stem packing in propulsion plant valves	<i>Equipment Maintenance Installation</i>	<i>Manual Dexterity Multi-limb Coordination</i>
E5	CORE	Troubleshoot feed systems	<i>Complex Problem Solving Troubleshooting</i>	<i>Deductive Reasoning Inductive Reasoning</i>
E5	CORE	Troubleshoot hydraulic system components	<i>Complex Problem Solving Troubleshooting</i>	<i>Deductive Reasoning Inductive Reasoning</i>
E5	CORE	Troubleshoot lube oil systems	<i>Complex Problem Solving Troubleshooting</i>	<i>Deductive Reasoning Inductive Reasoning</i>
E5	CORE	Troubleshoot pneumatic systems	<i>Complex Problem Solving Troubleshooting</i>	<i>Deductive Reasoning Inductive Reasoning</i>
E5	CORE	Troubleshoot primary systems	<i>Complex Problem Solving Troubleshooting</i>	<i>Deductive Reasoning Inductive Reasoning</i>
E5	CORE	Troubleshoot propulsion plant components	<i>Complex Problem Solving Troubleshooting</i>	<i>Deductive Reasoning Inductive Reasoning</i>

E5	CORE	Troubleshoot propulsion plant pumps	<i>Complex Problem Solving Troubleshooting</i>	<i>Deductive Reasoning Inductive Reasoning</i>
E5	CORE	Troubleshoot propulsion plant valves	<i>Complex Problem Solving Troubleshooting</i>	<i>Deductive Reasoning Inductive Reasoning</i>
E5	CORE	Troubleshoot reactor fill systems	<i>Complex Problem Solving Troubleshooting</i>	<i>Deductive Reasoning Inductive Reasoning</i>
E5	CORE	Troubleshoot sea water systems	<i>Complex Problem Solving Troubleshooting</i>	<i>Deductive Reasoning Inductive Reasoning</i>
E5	CORE	Troubleshoot secondary support systems	<i>Complex Problem Solving Troubleshooting</i>	<i>Deductive Reasoning Inductive Reasoning</i>
E5	CORE	Troubleshoot steam systems	<i>Complex Problem Solving Troubleshooting</i>	<i>Deductive Reasoning Inductive Reasoning</i>

MECHANICAL SYSTEMS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E4	CORE	Align air compressors	<i>Operation and Control Operation Monitoring</i>	<i>Manual Dexterity Written Comprehension</i>
E4	CORE	Align auxiliary exhaust systems	<i>Operation and Control Operation Monitoring</i>	<i>Manual Dexterity Written Comprehension</i>
E4	CORE	Align auxiliary feed systems	<i>Operation and Control Operation Monitoring</i>	<i>Manual Dexterity Written Comprehension</i>
E4	CORE	Align coolant pressurizing systems	<i>Operation and Control Operation Monitoring</i>	<i>Manual Dexterity Written Comprehension</i>
E4	CORE	Align coolant purification systems	<i>Operation and Control Operation Monitoring</i>	<i>Manual Dexterity Written Comprehension</i>
E4	CORE	Align demineralized water systems	<i>Operation and Control Operation Monitoring</i>	<i>Manual Dexterity Written Comprehension</i>
E4	CORE	Align distilling units	<i>Operation and Control Operation Monitoring</i>	<i>Manual Dexterity Written Comprehension</i>
E4	CORE	Align feed systems	<i>Operation and Control Operation Monitoring</i>	<i>Manual Dexterity Written Comprehension</i>
E4	CORE	Align fresh water drain collecting systems	<i>Operation and Control Operation Monitoring</i>	<i>Manual Dexterity Written Comprehension</i>
E4	CORE	Align gland seal and gland exhaust systems	<i>Operation and Control Operation Monitoring</i>	<i>Manual Dexterity Written Comprehension</i>
E4	CORE	Align High Pressure (HP) air systems	<i>Operation and Control Operation Monitoring</i>	<i>Manual Dexterity Written Comprehension</i>
E4	CORE	Align High Pressure (HP) drain systems	<i>Operation and Control Operation Monitoring</i>	<i>Manual Dexterity Written Comprehension</i>

E4	CORE	Align hydraulic systems	<i>Operation and Control Operation Monitoring</i>	<i>Manual Dexterity Written Comprehension</i>
E4	CORE	Align lube oil purification systems	<i>Operation and Control Operation Monitoring</i>	<i>Manual Dexterity Written Comprehension</i>
E4	CORE	Align main feed lube oil systems	<i>Operation and Control Operation Monitoring</i>	<i>Manual Dexterity Written Comprehension</i>
E4	CORE	Align main seawater systems	<i>Operation and Control Operation Monitoring</i>	<i>Manual Dexterity Written Comprehension</i>
E4	CORE	Align main steam systems	<i>Operation and Control Operation Monitoring</i>	<i>Manual Dexterity Written Comprehension</i>
E4	CORE	Align potable water systems	<i>Operation and Control Operation Monitoring</i>	<i>Manual Dexterity Written Comprehension</i>
E4	CORE	Align primary shield water systems	<i>Operation and Control Operation Monitoring</i>	<i>Manual Dexterity Written Comprehension</i>
E4	CORE	Align propulsion lube oil systems	<i>Operation and Control Operation Monitoring</i>	<i>Manual Dexterity Written Comprehension</i>
E5	CORE	Align propulsion plant pumps	<i>Operation and Control Operation Monitoring</i>	<i>Manual Dexterity Written Comprehension</i>
E4	CORE	Align propulsion plant valves	<i>Operation and Control Operation Monitoring</i>	<i>Manual Dexterity Written Comprehension</i>
E4	CORE	Align propulsion turbine throttle control systems	<i>Operation and Control Operation Monitoring</i>	<i>Manual Dexterity Written Comprehension</i>
E5	CORE	Align reactor air systems	<i>Operation and Control Operation Monitoring</i>	<i>Manual Dexterity Written Comprehension</i>
E4	CORE	Align reactor fill systems	<i>Operation and Control Operation Monitoring</i>	<i>Manual Dexterity Written Comprehension</i>
E4	CORE	Align reactor plant fresh water systems	<i>Operation and Control Operation Monitoring</i>	<i>Manual Dexterity Written Comprehension</i>
E4	CORE	Align reactor plant sea water systems	<i>Operation and Control Operation Monitoring</i>	<i>Manual Dexterity Written Comprehension</i>
E4	CORE	Align reactor plant valves	<i>Operation and Control Reading Comprehension</i>	<i>Problem Sensitivity Written Comprehension</i>
E4	CORE	Align reboiler systems	<i>Operation and Control Operation Monitoring</i>	<i>Manual Dexterity Written Comprehension</i>
E4	CORE	Align reserve and make up feed systems	<i>Operation and Control Operation Monitoring</i>	<i>Manual Dexterity Written Comprehension</i>
E4	CORE	Align ships service air systems	<i>Operation and Control Operation Monitoring</i>	<i>Manual Dexterity Written Comprehension</i>

E4	CORE	Align steam generating systems	<i>Operation and Control Operation Monitoring</i>	<i>Manual Dexterity Written Comprehension</i>
E4	CORE	Align turbine generator circulating seawater systems	<i>Operation and Control Operation Monitoring</i>	<i>Manual Dexterity Written Comprehension</i>
E4	CORE	Align valve operating systems	<i>Operation and Control Operation Monitoring</i>	<i>Manual Dexterity Written Comprehension</i>
E4	CORE	Classify primary valves	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Manual Dexterity Written Comprehension</i>
E4	CORE	Clean air compressor components	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Near Vision Finger Dexterity</i>
E4	CORE	Clean auxiliary exhaust system components	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Near Vision Finger Dexterity</i>
E4	CORE	Clean auxiliary feed system components	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Near Vision Finger Dexterity</i>
E4	CORE	Clean auxiliary machinery circulating water system components	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Near Vision Finger Dexterity</i>
E4	CORE	Clean auxiliary steam system components	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Near Vision Finger Dexterity</i>
E4	CORE	Clean bilge and oily water system components	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Near Vision Finger Dexterity</i>
E4	CORE	Clean condensate system components	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Near Vision Finger Dexterity</i>
E4	CORE	Clean control air system components	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Near Vision Finger Dexterity</i>
E4	CORE	Clean coolant charging system components	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Near Vision Finger Dexterity</i>
E4	CORE	Clean coolant discharge system components	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Near Vision Finger Dexterity</i>
E4	CORE	Clean coolant pressure relief system components	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Near Vision Finger Dexterity</i>
E4	CORE	Clean coolant pressurizing system components	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Near Vision Finger Dexterity</i>
E4	CORE	Clean coolant purification system components	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Near Vision Finger Dexterity</i>
E4	CORE	Clean coolant sampling system components	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Near Vision Finger Dexterity</i>
E4	CORE	Clean core removal cooling system components	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Near Vision Finger Dexterity</i>

E4	CORE	Clean demineralized water systems components <i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Finger Dexterity</i>
E4	CORE	Clean distilling unit system components <i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Finger Dexterity</i>
E4	CORE	Clean feed system components <i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Finger Dexterity</i>
E4	CORE	Clean fresh water drain collecting system components <i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Finger Dexterity</i>
E4	CORE	Clean gland seal and gland exhaust system components <i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Finger Dexterity</i>
E4	CORE	Clean High Pressure (HP) air system components <i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Finger Dexterity</i>
E4	CORE	Clean High Pressure (HP) drain system components <i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Finger Dexterity</i>
E4	CORE	Clean hydraulic system components <i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Finger Dexterity</i>
E4	CORE	Clean lube oil purification system components <i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Finger Dexterity</i>
E4	CORE	Clean main drainage system components <i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Finger Dexterity</i>
E4	CORE	Clean main feed lube oil system components <i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Finger Dexterity</i>
E4	CORE	Clean main sea water system components <i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Finger Dexterity</i>
E4	CORE	Clean main steam system components <i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Finger Dexterity</i>
E4	CORE	Clean pneumatic system components <i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Finger Dexterity</i>
E4	CORE	Clean potable water system components <i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Finger Dexterity</i>
E4	CORE	Clean primary shield water components <i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Finger Dexterity</i>
E4	CORE	Clean propulsion lube oil systems <i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Finger Dexterity</i>
E4	CORE	Clean propulsion turbine components <i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Finger Dexterity</i>
E4	CORE	Clean propulsion turbine throttle control components <i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Finger Dexterity</i>

E4	CORE	Clean pump cavities	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Near Vision Finger Dexterity</i>
E4	CORE	Clean reactor air system components	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Near Vision Finger Dexterity</i>
E4	CORE	Clean reactor coolant system components	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Near Vision Finger Dexterity</i>
E4	CORE	Clean reactor fill system components	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Near Vision Finger Dexterity</i>
E4	CORE	Clean reactor plant fresh water cooling system components	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Near Vision Finger Dexterity</i>
E4	CORE	Clean reactor plant sea water system components	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Near Vision Finger Dexterity</i>
E4	CORE	Clean reboiler system components	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Near Vision Finger Dexterity</i>
E4	CORE	Clean reserve and make up feed system components	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Near Vision Finger Dexterity</i>
E4	CORE	Clean shaft lube oil system components	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Near Vision Finger Dexterity</i>
E4	CORE	Clean ships service air system components	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Near Vision Finger Dexterity</i>
E4	CORE	Clean steam generating system components	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Near Vision Finger Dexterity</i>
E4	CORE	Clean turbine generator circulating water system components	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Near Vision Finger Dexterity</i>
E4	CORE	Clean turbine generator lube oil system components	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Near Vision Finger Dexterity</i>
E4	CORE	Clean turbine generator system components	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Near Vision Finger Dexterity</i>
E4	CORE	Clean valve operating system components	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Near Vision Finger Dexterity</i>
E4	CORE	Fill lube oil tanks	<i>Coordination Operation Monitoring</i>	<i>Oral Expression Written Comprehension</i>
E4	CORE	Lubricate air compressor components	<i>Equipment Maintenance Management of Material Resources</i>	<i>Manual Dexterity Written Comprehension</i>
E4	CORE	Lubricate auxiliary machinery circulating water system components	<i>Equipment Maintenance Management of Material Resources</i>	<i>Manual Dexterity Written Comprehension</i>
E4	CORE	Lubricate chemical injection system components	<i>Equipment Maintenance Management of Material Resources</i>	<i>Manual Dexterity Written Comprehension</i>

E4	CORE	Lubricate control air system components <i>Equipment Maintenance</i> <i>Management of Material Resources</i>	<i>Manual Dexterity</i> <i>Written Comprehension</i>
E4	CORE	Lubricate High Pressure (HP) air system components <i>Equipment Maintenance</i> <i>Management of Material Resources</i>	<i>Manual Dexterity</i> <i>Written Comprehension</i>
E4	CORE	Lubricate main sea water system components <i>Equipment Maintenance</i> <i>Management of Material Resources</i>	<i>Manual Dexterity</i> <i>Written Comprehension</i>
E4	CORE	Lubricate pneumatic system components <i>Equipment Maintenance</i> <i>Management of Material Resources</i>	<i>Manual Dexterity</i> <i>Written Comprehension</i>
E4	CORE	Lubricate propulsion plant valves <i>Equipment Maintenance</i> <i>Management of Material Resources</i>	<i>Manual Dexterity</i> <i>Written Comprehension</i>
E4	CORE	Lubricate propulsion turbine components <i>Equipment Maintenance</i> <i>Management of Material Resources</i>	<i>Manual Dexterity</i> <i>Written Comprehension</i>
E4	CORE	Lubricate propulsion turbine throttle control system components <i>Equipment Maintenance</i> <i>Management of Material Resources</i>	<i>Manual Dexterity</i> <i>Written Comprehension</i>
E4	CORE	Lubricate pump bearings <i>Equipment Maintenance</i> <i>Management of Material Resources</i>	<i>Manual Dexterity</i> <i>Written Comprehension</i>
E4	CORE	Lubricate reactor plant fresh water cooling system components <i>Equipment Maintenance</i> <i>Management of Material Resources</i>	<i>Manual Dexterity</i> <i>Written Comprehension</i>
E4	CORE	Lubricate ships service air system components <i>Equipment Maintenance</i> <i>Management of Material Resources</i>	<i>Manual Dexterity</i> <i>Written Comprehension</i>
E4	CORE	Lubricate steam generating system components <i>Equipment Maintenance</i> <i>Management of Material Resources</i>	<i>Manual Dexterity</i> <i>Written Comprehension</i>
E4	CORE	Monitor air compressors temperatures and pressures <i>Operation Monitoring</i> <i>Systems Evaluation</i>	<i>Problem Sensitivity</i> <i>Written Expression</i>
E4	CORE	Monitor auxiliary exhaust system temperatures and pressures <i>Operation Monitoring</i> <i>Systems Evaluation</i>	<i>Problem Sensitivity</i> <i>Written Expression</i>
E4	CORE	Monitor auxiliary machinery circulating water system temperatures and pressures <i>Operation Monitoring</i> <i>Systems Evaluation</i>	<i>Problem Sensitivity</i> <i>Written Expression</i>
E4	CORE	Monitor auxiliary steam system temperatures and pressures <i>Operation Monitoring</i> <i>Systems Evaluation</i>	<i>Problem Sensitivity</i> <i>Written Expression</i>
E4	CORE	Monitor bilge and oily water system temperatures and pressures <i>Operation Monitoring</i> <i>Systems Evaluation</i>	<i>Problem Sensitivity</i> <i>Written Expression</i>
E4	CORE	Monitor condensate system temperatures and pressures <i>Operation Monitoring</i> <i>Systems Evaluation</i>	<i>Problem Sensitivity</i> <i>Written Expression</i>
E4	CORE	Monitor control air system pressures <i>Operation Monitoring</i> <i>Systems Evaluation</i>	<i>Problem Sensitivity</i> <i>Written Expression</i>
E4	CORE	Monitor coolant charging system temperatures and pressures <i>Operation Monitoring</i> <i>Systems Evaluation</i>	<i>Problem Sensitivity</i> <i>Written Expression</i>

E4	CORE	Monitor coolant discharge system radiation, temperatures, and pressures <i>Operation Monitoring</i> <i>Systems Evaluation</i>	<i>Problem Sensitivity</i> <i>Written Expression</i>
E4	CORE	Monitor coolant pressure relief system temperatures and pressures <i>Operation Monitoring</i> <i>Systems Evaluation</i>	<i>Problem Sensitivity</i> <i>Written Expression</i>
E4	CORE	Monitor coolant pressurizing system temperatures, levels and pressures <i>Operation Monitoring</i> <i>Systems Evaluation</i>	<i>Problem Sensitivity</i> <i>Written Expression</i>
E4	CORE	Monitor coolant purification system temperatures and pressures <i>Operation Monitoring</i> <i>Systems Evaluation</i>	<i>Problem Sensitivity</i> <i>Written Expression</i>
E4	CORE	Monitor coolant sampling system temperatures and pressures <i>Operation Monitoring</i> <i>Systems Evaluation</i>	<i>Problem Sensitivity</i> <i>Written Expression</i>
E4	CORE	Monitor core removal cooling system temperatures and pressures <i>Operation Monitoring</i> <i>Systems Evaluation</i>	<i>Problem Sensitivity</i> <i>Written Expression</i>
E4	CORE	Monitor distilling unit temperatures and pressures <i>Operation Monitoring</i> <i>Systems Evaluation</i>	<i>Problem Sensitivity</i> <i>Written Expression</i>
E4	CORE	Monitor feed system temperatures and pressures <i>Operation Monitoring</i> <i>Systems Evaluation</i>	<i>Problem Sensitivity</i> <i>Written Expression</i>
E4	CORE	Monitor fresh water drain collecting system temperatures and pressures <i>Operation Monitoring</i> <i>Systems Evaluation</i>	<i>Problem Sensitivity</i> <i>Written Expression</i>
E4	CORE	Monitor gland seal and gland exhaust system temperatures and pressures <i>Operation Monitoring</i> <i>Systems Evaluation</i>	<i>Problem Sensitivity</i> <i>Written Expression</i>
E4	CORE	Monitor High Pressure (HP) air system temperatures and pressures <i>Operation Monitoring</i> <i>Systems Evaluation</i>	<i>Problem Sensitivity</i> <i>Written Expression</i>
E4	CORE	Monitor High Pressure (HP) drain system temperatures and pressures <i>Operation Monitoring</i> <i>Systems Evaluation</i>	<i>Problem Sensitivity</i> <i>Written Expression</i>
E4	CORE	Monitor hydraulic system pressures <i>Operation Monitoring</i> <i>Systems Evaluation</i>	<i>Problem Sensitivity</i> <i>Written Expression</i>
E4	CORE	Monitor lube oil purification system temperatures and pressures <i>Operation Monitoring</i> <i>Systems Evaluation</i>	<i>Problem Sensitivity</i> <i>Written Expression</i>
E4	CORE	Monitor main drainage system levels and pressures <i>Operation Monitoring</i> <i>Systems Evaluation</i>	<i>Problem Sensitivity</i> <i>Written Expression</i>
E4	CORE	Monitor main engine temperatures and pressures <i>Operation Monitoring</i> <i>Systems Evaluation</i>	<i>Problem Sensitivity</i> <i>Written Expression</i>
E4	CORE	Monitor main feed lube oil system temperatures and pressures <i>Operation Monitoring</i> <i>Systems Evaluation</i>	<i>Problem Sensitivity</i> <i>Written Expression</i>
E4	CORE	Monitor main sea water system temperatures and pressures <i>Operation Monitoring</i> <i>Systems Evaluation</i>	<i>Problem Sensitivity</i> <i>Written Expression</i>
E4	CORE	Monitor main steam system temperatures and pressures <i>Operation Monitoring</i> <i>Systems Evaluation</i>	<i>Problem Sensitivity</i> <i>Written Expression</i>

E4	CORE	Monitor potable water system pressures and levels <i>Operation Monitoring Systems Evaluation</i>	<i>Problem Sensitivity Written Expression</i>
E4	CORE	Monitor primary shield water system temperatures and levels <i>Operation Monitoring Systems Evaluation</i>	<i>Problem Sensitivity Written Expression</i>
E4	CORE	Monitor propulsion lube oil system temperatures, levels, and pressures <i>Operation Monitoring Systems Evaluation</i>	<i>Problem Sensitivity Written Expression</i>
E4	CORE	Monitor propulsion turbine system speed, temperatures, and pressures <i>Operation Monitoring Systems Evaluation</i>	<i>Problem Sensitivity Written Expression</i>
E4	CORE	Monitor propulsion turbine throttle control system temperatures and pressures <i>Operation Monitoring Systems Evaluation</i>	<i>Problem Sensitivity Written Expression</i>
E4	CORE	Monitor reactor air system pressures <i>Operation Monitoring Systems Evaluation</i>	<i>Problem Sensitivity Written Expression</i>
E4	CORE	Monitor reactor coolant system temperatures and pressures <i>Operation Monitoring Systems Evaluation</i>	<i>Problem Sensitivity Written Expression</i>
E4	CORE	Monitor reactor fill system temperatures and pressures <i>Operation Monitoring Systems Evaluation</i>	<i>Problem Sensitivity Written Expression</i>
E4	CORE	Monitor reactor plant fresh water system temperatures and pressures <i>Operation Monitoring Systems Evaluation</i>	<i>Problem Sensitivity Written Expression</i>
E4	CORE	Monitor reactor plant sea water system temperatures and pressures <i>Operation Monitoring Systems Evaluation</i>	<i>Problem Sensitivity Written Expression</i>
E4	CORE	Monitor reboiler system temperatures, levels, and pressures <i>Operation Monitoring Systems Evaluation</i>	<i>Problem Sensitivity Written Expression</i>
E4	CORE	Monitor reserve and make up feed system pressures and levels <i>Operation Monitoring Systems Evaluation</i>	<i>Problem Sensitivity Written Expression</i>
E4	CORE	Monitor shaft lube system temperatures and pressures <i>Operation Monitoring Systems Evaluation</i>	<i>Problem Sensitivity Written Expression</i>
E4	CORE	Monitor ships service air system temperatures and pressures <i>Operation Monitoring Systems Evaluation</i>	<i>Problem Sensitivity Written Expression</i>
E4	CORE	Monitor steam generating system temperatures and pressures <i>Operation Monitoring Systems Evaluation</i>	<i>Problem Sensitivity Written Expression</i>
E4	CORE	Monitor turbine generator lube oil system temperatures and pressures <i>Operation Monitoring Systems Evaluation</i>	<i>Problem Sensitivity Written Expression</i>
E4	CORE	Monitor turbine generator system speed, temperatures, and pressures <i>Operation Monitoring Systems Evaluation</i>	<i>Problem Sensitivity Written Expression</i>
E4	CORE	Monitor valve operating system temperatures and pressures <i>Operation Monitoring Systems Evaluation</i>	<i>Problem Sensitivity Written Expression</i>
E4	CORE	Operate auxiliary feed systems <i>Operation and Control Operation Monitoring</i>	<i>Written Comprehension Manual Dexterity</i>

E4	CORE	Operate condensate systems	<i>Operation and Control Operation Monitoring</i>	<i>Written Comprehension Manual Dexterity</i>
E4	CORE	Operate control air systems	<i>Operation and Control Operation Monitoring</i>	<i>Written Comprehension Manual Dexterity</i>
E4	CORE	Operate coolant charging systems	<i>Operation and Control Operation Monitoring</i>	<i>Written Comprehension Manual Dexterity</i>
E4	CORE	Operate coolant pressurizing systems	<i>Operation and Control Operation Monitoring</i>	<i>Written Comprehension Manual Dexterity</i>
E4	CORE	Operate core removal cooling systems	<i>Operation and Control Operation Monitoring</i>	<i>Written Comprehension Manual Dexterity</i>
E4	CORE	Operate discharge boundary valves	<i>Operation and Control Operation Monitoring</i>	<i>Written Comprehension Manual Dexterity</i>
E4	CORE	Operate distilling units	<i>Operation and Control Operation Monitoring</i>	<i>Written Comprehension Manual Dexterity</i>
E4	CORE	Operate feed systems	<i>Operation and Control Operation Monitoring</i>	<i>Written Comprehension Manual Dexterity</i>
E4	CORE	Operate High Pressure (HP) air systems	<i>Operation and Control Operation Monitoring</i>	<i>Written Comprehension Manual Dexterity</i>
E4	CORE	Operate hydraulic systems	<i>Operation and Control Operation Monitoring</i>	<i>Written Comprehension Manual Dexterity</i>
E4	CORE	Operate main engines	<i>Operation and Control Operation Monitoring</i>	<i>Written Comprehension Manual Dexterity</i>
E4	CORE	Operate pneumatically-controlled valves	<i>Operation and Control Operation Monitoring</i>	<i>Written Comprehension Manual Dexterity</i>
E4	CORE	Operate primary valves	<i>Operation and Control Operation Monitoring</i>	<i>Written Comprehension Manual Dexterity</i>
E4	CORE	Operate propulsion plant pumps	<i>Operation and Control Operation Monitoring</i>	<i>Written Comprehension Manual Dexterity</i>
E4	CORE	Operate propulsion turbines	<i>Operation and Control Operation Monitoring</i>	<i>Written Comprehension Manual Dexterity</i>
E4	CORE	Operate reactor air systems	<i>Operation and Control Operation Monitoring</i>	<i>Written Comprehension Manual Dexterity</i>
E4	CORE	Operate reactor coolant systems	<i>Operation and Control Operation Monitoring</i>	<i>Written Comprehension Manual Dexterity</i>
E4	CORE	Operate shaft lube oil systems	<i>Operation and Control Operation Monitoring</i>	<i>Written Comprehension Manual Dexterity</i>
E4	CORE	Operate ship service air systems	<i>Operation and Control Operation Monitoring</i>	<i>Written Comprehension Manual Dexterity</i>

E4	CORE	Operate shipboard habitability systems <i>Operation and Control</i> <i>Operation Monitoring</i>	<i>Written Comprehension</i> <i>Manual Dexterity</i>
E4	CORE	Operate steam generating systems <i>Operation and Control</i> <i>Operation Monitoring</i>	<i>Written Comprehension</i> <i>Manual Dexterity</i>
E4	CORE	Operate turbine generator lube oil systems <i>Operation and Control</i> <i>Operation Monitoring</i>	<i>Written Comprehension</i> <i>Manual Dexterity</i>
E4	CORE	Operate turbine generators <i>Operation and Control</i> <i>Operation Monitoring</i>	<i>Written Comprehension</i> <i>Manual Dexterity</i>
E4	CORE	Operate valve operating systems <i>Operation and Control</i> <i>Operation Monitoring</i>	<i>Written Comprehension</i> <i>Manual Dexterity</i>
E4	CORE	Secure reactor fill system components <i>Operation and Control</i> <i>Reading Comprehension</i>	<i>Selective Attention</i> <i>Written Comprehension</i>
E4	CORE	Secure reactor fill systems <i>Operation and Control</i> <i>Reading Comprehension</i>	<i>Selective Attention</i> <i>Written Comprehension</i>
E4	CORE	Shutdown air compressor <i>Operation and Control</i> <i>Reading Comprehension</i>	<i>Multi-limb Coordination</i> <i>Written Comprehension</i>
E4	CORE	Shutdown auxiliary exhaust systems <i>Operation and Control</i> <i>Reading Comprehension</i>	<i>Multi-limb Coordination</i> <i>Written Comprehension</i>
E4	CORE	Shutdown auxiliary feed systems <i>Operation and Control</i> <i>Reading Comprehension</i>	<i>Multi-limb Coordination</i> <i>Written Comprehension</i>
E4	CORE	Shutdown auxiliary machinery circulating water systems <i>Operation and Control</i> <i>Reading Comprehension</i>	<i>Multi-limb Coordination</i> <i>Written Comprehension</i>
E4	CORE	Shutdown auxiliary steam systems <i>Operation and Control</i> <i>Reading Comprehension</i>	<i>Multi-limb Coordination</i> <i>Written Comprehension</i>
E4	CORE	Shutdown High Pressure (HP) air systems <i>Operation and Control</i> <i>Reading Comprehension</i>	<i>Multi-limb Coordination</i> <i>Written Comprehension</i>
E4	CORE	Shutdown High Pressure (HP) drain systems <i>Operation and Control</i> <i>Reading Comprehension</i>	<i>Multi-limb Coordination</i> <i>Written Comprehension</i>
E4	CORE	Shutdown main drainage systems <i>Operation and Control</i> <i>Reading Comprehension</i>	<i>Multi-limb Coordination</i> <i>Written Comprehension</i>
E4	CORE	Shutdown main sea water systems <i>Operation and Control</i> <i>Reading Comprehension</i>	<i>Multi-limb Coordination</i> <i>Written Comprehension</i>

QUALITY ASSURANCE

<u>Pavgrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E5	CORE	Test hydraulic system components	<i>Operation Monitoring</i> <i>Quality Control Analysis</i>	<i>Problem Sensitivity</i> <i>Written Comprehension</i>
E5	CORE	Test lube oil systems	<i>Operation Monitoring</i> <i>Quality Control Analysis</i>	<i>Problem Sensitivity</i> <i>Written Comprehension</i>

E5	CORE	Test pneumatic systems	<i>Operation Monitoring Quality Control Analysis</i>	<i>Problem Sensitivity Written Comprehension</i>
E5	CORE	Test primary systems	<i>Operation Monitoring Quality Control Analysis</i>	<i>Problem Sensitivity Written Comprehension</i>
E5	CORE	Test propulsion plant pumps	<i>Operation Monitoring Quality Control Analysis</i>	<i>Problem Sensitivity Written Comprehension</i>
E5	CORE	Test propulsion plant valves	<i>Operation Monitoring Quality Control Analysis</i>	<i>Problem Sensitivity Written Comprehension</i>
E5	CORE	Test sea water systems	<i>Operation Monitoring Quality Control Analysis</i>	<i>Problem Sensitivity Written Comprehension</i>
E5	CORE	Test secondary support systems	<i>Operation Monitoring Quality Control Analysis</i>	<i>Problem Sensitivity Written Comprehension</i>
E5	CORE	Test steam systems	<i>Operation Monitoring Quality Control Analysis</i>	<i>Problem Sensitivity Written Comprehension</i>

Job Title**Propulsion Plant Mechanical Supervisor****Job Code****003789****Job Family**

Installation, Maintenance, and Repair

NOC

4900-1011.00

Short Title (30 Characters)

SUB PROPULSION PLANT MECH SUP

Short Title (10 Characters)

SS PPM SUP

Pay Plan

Enlisted

Career Field

MM(NUC)

Proficiency Level

J

Other Relationships and Rules:

3365

Job Description

Submarine Propulsion Plant Mechanical Supervisors perform advanced mechanical systems operations and apply advanced level maintenance practices and supervision to propulsion plant mechanical systems, support systems, turbines, pumps, and valves. They supervise operations, advanced maintenance, advanced testing, and training for personnel assigned to machinery division. They also draft correspondence and develop administrative programs to support the division. Mechanical Supervisors perform the critical work functions required to move naval tactical forces, repair and maintain equipment, train forces and personnel, and perform consequence management.

DoD Relationship**Title and Group:**

Main Propulsion

165

Code and Area:

165100

16

O*NET Relationship**Title and SOC Code:**

First Line Supervisors/Managers of

Mechanics, Installers, Repairers

49-1011.00

Name and Family Code:

Installation, Maintenance, and

Repair

49

ENGINEERING MANAGEMENT

Paygrade	Task Type	Task Statements	Skills	Abilities
E6	CORE	Conduct remote operability training	<i>Instructing</i> <i>Speaking</i>	<i>Oral Expression</i> <i>Written Expression</i>
E5	CORE	Maintain radiological-controlled area records	<i>Reading Comprehension</i> <i>Writing</i>	<i>Written Comprehension</i> <i>Written Expression</i>
E5	CORE	Maintain small valve maintenance documentation	<i>Reading Comprehension</i> <i>Writing</i>	<i>Written Expression</i> <i>Written Comprehension</i>
E6	CORE	Supervise shutdown watch section operations	<i>Management of Personnel</i> <i>Monitoring</i>	<i>Oral Expression</i> <i>Selective Attention</i>
E6	CORE	Supervise underway watch section operations	<i>Management of Personnel</i> <i>Monitoring</i>	<i>Oral Expression</i> <i>Selective Attention</i>

LABORATORY MANAGEMENT

Paygrade	Task Type	Task Statements	Skills	Abilities
E5	CORE	Conduct controlled area surveys	<i>Reading Comprehension</i> <i>Systems Evaluation</i>	<i>Number Facility</i> <i>Written Expression</i>
E5	CORE	Conduct overboard discharge system evolutions	<i>Systems Analysis</i> <i>Operation and Control</i>	<i>Problem Sensitivity</i> <i>Written Comprehension</i>
E5	CORE	Conduct primary valve operation radiological surveys	<i>Equipment Maintenance</i> <i>Programming</i>	<i>Problem Sensitivity</i> <i>Written Comprehension</i>
E5	CORE	Control access to radiological-controlled areas	<i>Speaking</i> <i>Writing</i>	<i>Oral Expression</i> <i>Written Expression</i>
E5	CORE	Disestablish radiological-controlled areas	<i>Speaking</i> <i>Writing</i>	<i>Oral Expression</i> <i>Written Expression</i>

E5	CORE	Establish radiological-controlled areas	<i>Speaking Writing</i>	<i>Oral Expression Written Expression</i>
E5	CORE	Issue self-indicating pocket dosimeters	<i>Management of Material Resources Operation Monitoring</i>	<i>Finger Dexterity Written Expression</i>

MECHANICAL MAINTENANCE

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E5	CORE	Adjust hydraulic system components	<i>Systems Analysis Operation Monitoring</i>	<i>Arm-Hand Steadiness Manual Dexterity</i>
E5	CORE	Adjust primary shield water components	<i>Systems Analysis Operation Monitoring</i>	<i>Arm-Hand Steadiness Manual Dexterity</i>
E5	CORE	Adjust propulsion plant pumps	<i>Systems Analysis Operation Monitoring</i>	<i>Arm-Hand Steadiness Manual Dexterity</i>
E5	CORE	Adjust propulsion plant valves	<i>Systems Analysis Operation Monitoring</i>	<i>Arm-Hand Steadiness Manual Dexterity</i>
E5	CORE	Align auxiliary machinery circulating water systems	<i>Operation and Control Operation Monitoring</i>	<i>Manual Dexterity Written Comprehension</i>
E5	CORE	Align auxiliary steam systems	<i>Operation and Control Operation Monitoring</i>	<i>Manual Dexterity Written Comprehension</i>
E5	CORE	Align bilge and oily water systems	<i>Operation and Control Operation Monitoring</i>	<i>Manual Dexterity Written Comprehension</i>
E5	CORE	Align coolant discharge systems	<i>Operation and Control Operation Monitoring</i>	<i>Manual Dexterity Written Comprehension</i>
E5	CORE	Conduct remote operability checklist procedures	<i>Operations Analysis Coordination</i>	<i>Control Precision Written Comprehension</i>
E5	CORE	Inspect air compressor components	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Near Vision Written Comprehension</i>
E5	CORE	Inspect auxiliary exhaust systems components	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Near Vision Written Comprehension</i>
E5	CORE	Inspect auxiliary feed system components	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Near Vision Written Comprehension</i>
E5	CORE	Inspect auxiliary machinery circulating water system components	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Near Vision Written Comprehension</i>
E5	CORE	Inspect auxiliary steam system components	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Near Vision Written Comprehension</i>
E5	CORE	Inspect bilge and oily water system components	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Near Vision Written Comprehension</i>
E5	CORE	Inspect chemical injection system components	<i>Equipment Maintenance Quality Control Analysis</i>	<i>Near Vision Written Comprehension</i>

E5	CORE	Inspect condensate system components <i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Written Comprehension</i>
E5	CORE	Inspect control air system components <i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Written Comprehension</i>
E5	CORE	Inspect coolant charging system components <i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Written Comprehension</i>
E5	CORE	Inspect coolant discharge system components <i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Written Comprehension</i>
E5	CORE	Inspect coolant pressure relief system components <i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Written Comprehension</i>
E5	CORE	Inspect coolant pressurizing system components <i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Written Comprehension</i>
E5	CORE	Inspect coolant purification system components <i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Written Comprehension</i>
E5	CORE	Inspect coolant sampling system components <i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Written Comprehension</i>
E5	CORE	Inspect core removal cooling system components <i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Written Comprehension</i>
E5	CORE	Inspect demineralized water system components <i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Written Comprehension</i>
E5	CORE	Inspect distilling unit system components <i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Written Comprehension</i>
E5	CORE	Inspect feed system components <i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Written Comprehension</i>
E5	CORE	Inspect fresh water drain collecting system components <i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Written Comprehension</i>
E5	CORE	Inspect gland seal and gland exhaust system components <i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Written Comprehension</i>
E5	CORE	Inspect High Pressure (HP) air system components <i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Written Comprehension</i>
E5	CORE	Inspect High Pressure (HP) drain system components <i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Written Comprehension</i>
E5	CORE	Inspect hydraulic system components <i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Written Comprehension</i>
E5	CORE	Inspect lube oil purification system components <i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Written Comprehension</i>
E5	CORE	Inspect main drainage system components <i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Written Comprehension</i>

E5	CORE	Inspect main feed lube system components <i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Written Comprehension</i>
E5	CORE	Inspect main sea water system components <i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Written Comprehension</i>
E5	CORE	Inspect propulsion lube oil systems <i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Written Comprehension</i>
E5	CORE	Inspect propulsion plant valves <i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Written Comprehension</i>
E5	CORE	Inspect propulsion turbine components <i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Written Comprehension</i>
E5	CORE	Inspect pump cavities <i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Written Comprehension</i>
E5	CORE	Inspect reactor air system components <i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Written Comprehension</i>
E5	CORE	Inspect reactor coolant system components <i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Written Comprehension</i>
E5	CORE	Inspect reactor fill system components <i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Written Comprehension</i>
E5	CORE	Inspect reactor plant fresh water cooling system components <i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Written Comprehension</i>
E5	CORE	Inspect reactor plant sea water system components <i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Written Comprehension</i>
E5	CORE	Inspect reboiler system components <i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Written Comprehension</i>
E5	CORE	Inspect reserve and make up feed system components <i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Written Comprehension</i>
E5	CORE	Inspect shaft lube oil system components <i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Written Comprehension</i>
E5	CORE	Inspect ships service air system components <i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Written Comprehension</i>
E5	CORE	Inspect steam generating system components <i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Written Comprehension</i>
E5	CORE	Inspect turbine generator circulating water system components <i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Written Comprehension</i>
E5	CORE	Inspect turbine generator components <i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Written Comprehension</i>
E5	CORE	Inspect turbine generator lube oil system components <i>Equipment Maintenance</i> <i>Quality Control Analysis</i>	<i>Near Vision</i> <i>Written Comprehension</i>

E5	CORE	Repair feed system	<i>Repairing Equipment Selection</i>	<i>Arm-Hand Steadiness Manual Dexterity</i>
E5	CORE	Repair hydraulic system components	<i>Repairing Equipment Selection</i>	<i>Arm-Hand Steadiness Manual Dexterity</i>
E5	CORE	Repair lube oil systems	<i>Repairing Equipment Selection</i>	<i>Arm-Hand Steadiness Manual Dexterity</i>
E5	CORE	Repair pneumatic systems	<i>Repairing Equipment Selection</i>	<i>Arm-Hand Steadiness Manual Dexterity</i>
E5	CORE	Repair primary systems	<i>Repairing Equipment Selection</i>	<i>Arm-Hand Steadiness Manual Dexterity</i>
E4	CORE	Strikedown lube oil tanks	<i>Operation and Control Operation Monitoring</i>	<i>Written Comprehension Selective Attention</i>
E4	CORE	Tagout reactor plants	<i>Systems Analysis Reading Comprehension</i>	<i>Written Comprehension Finger Dexterity</i>
E4	CORE	Test feed systems	<i>Operation Monitoring Quality Control Analysis</i>	<i>Problem Sensitivity Written Comprehension</i>
E4	CORE	Transfer lube oil between tanks	<i>Operation and Control Operation Monitoring</i>	<i>Written Comprehension Selective Attention</i>

MECHANICAL SYSTEMS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E4	CORE	Align condensate systems	<i>Operation and Control Operation Monitoring</i>	<i>Manual Dexterity Written Comprehension</i>
E4	CORE	Align control air systems	<i>Operation and Control Operation Monitoring</i>	<i>Manual Dexterity Written Comprehension</i>
E4	CORE	Align coolant charging systems	<i>Operation and Control Operation Monitoring</i>	<i>Manual Dexterity Written Comprehension</i>
E4	CORE	Align coolant pressure relief systems	<i>Operation and Control Operation Monitoring</i>	<i>Manual Dexterity Written Comprehension</i>
E4	CORE	Align coolant sampling systems	<i>Operation and Control Operation Monitoring</i>	<i>Manual Dexterity Written Comprehension</i>
E4	CORE	Lubricate feed system components	<i>Equipment Maintenance Management of Material Resources</i>	<i>Manual Dexterity Written Comprehension</i>
E4	CORE	Monitor auxiliary feed system pressures	<i>Operation Monitoring Systems Evaluation</i>	<i>Problem Sensitivity Written Expression</i>
E5	CORE	Operate Interior Communications (IC) equipment	<i>Operation and Control Operation Monitoring</i>	<i>Written Comprehension Manual Dexterity</i>
E5	CORE	Operate manually controlled valves	<i>Operation and Control Operation Monitoring</i>	<i>Written Comprehension Manual Dexterity</i>

E5	CORE	Operate pneumatic system components	<i>Operation and Control Operation Monitoring</i>	<i>Written Comprehension Manual Dexterity</i>
E6	CORE	Operate reboiler systems	<i>Operation and Control Operation Monitoring</i>	<i>Written Comprehension Manual Dexterity</i>
E4	CORE	Shutdown bilge and oily water systems	<i>Operation and Control Reading Comprehension</i>	<i>Multi-limb Coordination Written Comprehension</i>
E4	CORE	Shutdown condensate systems	<i>Operation and Control Reading Comprehension</i>	<i>Multi-limb Coordination Written Comprehension</i>
E4	CORE	Shutdown control air systems	<i>Operation and Control Reading Comprehension</i>	<i>Multi-limb Coordination Written Comprehension</i>
E4	CORE	Shutdown coolant purification systems	<i>Operation and Control Reading Comprehension</i>	<i>Multi-limb Coordination Written Comprehension</i>
E4	CORE	Shutdown distilling unit	<i>Operation and Control Reading Comprehension</i>	<i>Multi-limb Coordination Written Comprehension</i>
E4	CORE	Shutdown feed systems	<i>Operation and Control Reading Comprehension</i>	<i>Multi-limb Coordination Written Comprehension</i>
E4	CORE	Shutdown fresh water drain collecting systems	<i>Operation and Control Reading Comprehension</i>	<i>Multi-limb Coordination Written Comprehension</i>
E4	CORE	Shutdown gland seal and gland exhaust systems	<i>Operation and Control Reading Comprehension</i>	<i>Multi-limb Coordination Written Comprehension</i>
E4	CORE	Shutdown main feed lube oil systems	<i>Operation and Control Reading Comprehension</i>	<i>Multi-limb Coordination Written Comprehension</i>
E4	CORE	Shutdown main steam systems	<i>Operation and Control Reading Comprehension</i>	<i>Multi-limb Coordination Written Comprehension</i>
E4	CORE	Shutdown potable water systems	<i>Operation and Control Reading Comprehension</i>	<i>Multi-limb Coordination Written Comprehension</i>
E4	CORE	Shutdown propulsion lube oil systems	<i>Operation and Control Reading Comprehension</i>	<i>Multi-limb Coordination Written Comprehension</i>
E4	CORE	Shutdown propulsion turbine	<i>Operation and Control Reading Comprehension</i>	<i>Multi-limb Coordination Written Comprehension</i>
E4	CORE	Shutdown propulsion turbine throttle control systems	<i>Operation and Control Reading Comprehension</i>	<i>Multi-limb Coordination Written Comprehension</i>
E4	CORE	Shutdown reactor air systems	<i>Operation and Control Reading Comprehension</i>	<i>Multi-limb Coordination Written Comprehension</i>
E4	CORE	Shutdown reactor plant fresh water systems	<i>Operation and Control Reading Comprehension</i>	<i>Multi-limb Coordination Written Comprehension</i>
E4	CORE	Shutdown reactor plant sea water systems	<i>Operation and Control Reading Comprehension</i>	<i>Multi-limb Coordination Written Comprehension</i>

E4	CORE	Shutdown reboiler systems	<i>Operation and Control Reading Comprehension</i>	<i>Multi-limb Coordination Written Comprehension</i>
E4	CORE	Shutdown reserve and make up feed systems	<i>Operation and Control Reading Comprehension</i>	<i>Multi-limb Coordination Written Comprehension</i>
E4	CORE	Shutdown ships service air systems	<i>Operation and Control Reading Comprehension</i>	<i>Multi-limb Coordination Written Comprehension</i>
E4	CORE	Shutdown steam generating systems	<i>Operation and Control Reading Comprehension</i>	<i>Multi-limb Coordination Written Comprehension</i>
E4	CORE	Shutdown turbine generator circulating water systems	<i>Operation and Control Reading Comprehension</i>	<i>Multi-limb Coordination Written Comprehension</i>
E4	CORE	Shutdown turbine generator lube oil systems	<i>Operation and Control Reading Comprehension</i>	<i>Multi-limb Coordination Written Comprehension</i>
E4	CORE	Shutdown turbine generator mechanically	<i>Operation and Control Reading Comprehension</i>	<i>Multi-limb Coordination Written Comprehension</i>
E4	CORE	Startup air compressors	<i>Operation and Control Reading Comprehension</i>	<i>Multi-limb Coordination Written Comprehension</i>
E4	CORE	Startup auxiliary exhaust systems	<i>Operation and Control Reading Comprehension</i>	<i>Multi-limb Coordination Written Comprehension</i>
E4	CORE	Startup auxiliary feed systems	<i>Operation and Control Reading Comprehension</i>	<i>Multi-limb Coordination Written Comprehension</i>
E4	CORE	Startup auxiliary machinery circulating water systems	<i>Operation and Control Reading Comprehension</i>	<i>Multi-limb Coordination Written Comprehension</i>
E4	CORE	Startup auxiliary steam systems	<i>Operation and Control Reading Comprehension</i>	<i>Multi-limb Coordination Written Comprehension</i>
E4	CORE	Startup bilge and oily water systems	<i>Operation and Control Reading Comprehension</i>	<i>Multi-limb Coordination Written Comprehension</i>
E4	CORE	Startup condensate systems	<i>Operation and Control Reading Comprehension</i>	<i>Multi-limb Coordination Written Comprehension</i>
E4	CORE	Startup control air systems	<i>Operation and Control Reading Comprehension</i>	<i>Multi-limb Coordination Written Comprehension</i>
E4	CORE	Startup coolant purification systems	<i>Operation and Control Reading Comprehension</i>	<i>Multi-limb Coordination Written Comprehension</i>
E4	CORE	Startup distilling units	<i>Operation and Control Reading Comprehension</i>	<i>Multi-limb Coordination Written Comprehension</i>
E4	CORE	Startup feed systems	<i>Operation and Control Reading Comprehension</i>	<i>Multi-limb Coordination Written Comprehension</i>
E4	CORE	Startup fresh water drain collecting systems	<i>Operation and Control Reading Comprehension</i>	<i>Multi-limb Coordination Written Comprehension</i>

E4	CORE	Startup gland seal and gland exhaust systems <i>Operation and Control Reading Comprehension</i>	<i>Multi-limb Coordination Written Comprehension</i>
E4	CORE	Startup High Pressure (HP) air systems <i>Operation and Control Reading Comprehension</i>	<i>Multi-limb Coordination Written Comprehension</i>
E4	CORE	Startup High Pressure (HP) drain systems <i>Operation and Control Reading Comprehension</i>	<i>Multi-limb Coordination Written Comprehension</i>
E4	CORE	Startup main drainage systems <i>Operation and Control Reading Comprehension</i>	<i>Multi-limb Coordination Written Comprehension</i>
E4	CORE	Startup main feed lube oil systems <i>Operation and Control Reading Comprehension</i>	<i>Multi-limb Coordination Written Comprehension</i>
E4	CORE	Startup main sea water systems <i>Operation and Control Reading Comprehension</i>	<i>Multi-limb Coordination Written Comprehension</i>
E4	CORE	Startup main steam systems <i>Operation and Control Reading Comprehension</i>	<i>Multi-limb Coordination Written Comprehension</i>
E4	CORE	Startup potable water systems <i>Operation and Control Reading Comprehension</i>	<i>Multi-limb Coordination Written Comprehension</i>
E4	CORE	Startup propulsion lube oil systems <i>Operation and Control Reading Comprehension</i>	<i>Multi-limb Coordination Written Comprehension</i>
E4	CORE	Startup propulsion turbines <i>Operation and Control Reading Comprehension</i>	<i>Multi-limb Coordination Written Comprehension</i>
E4	CORE	Startup propulsion turbine throttle control systems <i>Operation and Control Reading Comprehension</i>	<i>Multi-limb Coordination Written Comprehension</i>
E4	CORE	Startup reactor air systems <i>Operation and Control Reading Comprehension</i>	<i>Multi-limb Coordination Written Comprehension</i>
E4	CORE	Startup reactor plant fresh water systems <i>Operation and Control Reading Comprehension</i>	<i>Multi-limb Coordination Written Comprehension</i>
E4	CORE	Startup reactor plant sea water systems <i>Operation and Control Reading Comprehension</i>	<i>Multi-limb Coordination Written Comprehension</i>
E4	CORE	Startup reboiler systems <i>Operation and Control Reading Comprehension</i>	<i>Multi-limb Coordination Written Comprehension</i>
E4	CORE	Startup reserve and make up feed systems <i>Operation and Control Reading Comprehension</i>	<i>Multi-limb Coordination Written Comprehension</i>
E4	CORE	Startup ships service air systems <i>Operation and Control Reading Comprehension</i>	<i>Multi-limb Coordination Written Comprehension</i>
E4	CORE	Startup steam generating systems <i>Operation and Control Reading Comprehension</i>	<i>Multi-limb Coordination Written Comprehension</i>
E4	CORE	Startup turbine generator circulating water systems <i>Operation and Control Reading Comprehension</i>	<i>Multi-limb Coordination Written Comprehension</i>

E4	CORE	Startup turbine generator lube oil systems <i>Operation and Control</i> <i>Reading Comprehension</i>	<i>Multi-limb Coordination</i> <i>Written Comprehension</i>
E4	CORE	Startup turbine generator mechanically <i>Operation and Control</i> <i>Reading Comprehension</i>	<i>Multi-limb Coordination</i> <i>Written Comprehension</i>

QUALITY ASSURANCE

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>	<u>Skills</u>	<u>Abilities</u>
E6	CORE	Verify conditions established to prevent inadvertent discharge	<i>Reading Comprehension</i> <i>Operation and Control</i>	<i>Information Ordering</i> <i>Time Sharing</i>

Job Title**Propulsion Plant Mechanical Manager****Job Code****003797****Job Family**

Installation, Maintenance, and Repair

NOC

4900-1011.00

Short Title (30 Characters)

SUB PROPULSION PLANT MECH MGR

Short Title (10 Characters)

SS PPM MGR

Pay Plan

Enlisted

Career Field

MM(NUC)

Proficiency Level

M

Other Relationships and Rules:

3365

Job Description

Submarine Propulsion Plant Mechanical Managers manage operations, maintenance, and training for personnel assigned to machinery division and/or engineering department. They coordinate the pollution abatement program. Review divisional and/or department correspondence and perform audits of divisional and/or departmental programs and training. This job performs the critical work functions required to train forces and personnel, repair and maintain equipment, move naval tactical forces, and perform consequence management.

DoD Relationship**Title and Group:**Main Propulsion
165**Code and Area:**165100
16**O*NET Relationship****Title and SOC Code:**First Line Supervisors/Managers of
Mechanics, Installers, Repairers
49-1011.00**Name and Family Code:**Installation, Maintenance, and
Repair
49**ENGINEERING MANAGEMENT**

Paygrade	Task Type	Task Statements	Skills	Abilities
E7	CORE	Conduct shipboard pre-underway checks	<i>Negotiation Time Management</i>	<i>Problem Sensitivity Written Comprehension</i>
E7	CORE	Coordinate department maintenance operations	<i>Judgment and Decision Making Management of Material Resources</i>	<i>Oral Comprehension Written Comprehension</i>
E7	CORE	Coordinate division maintenance operations	<i>Judgment and Decision Making Management of Material Resources</i>	<i>Oral Comprehension Written Comprehension</i>
E7	CORE	Coordinate equipment modification procedures	<i>Installation Coordination</i>	<i>Visualization Deductive Reasoning</i>
E7	CORE	Manage performance data collection operations	<i>Reading Comprehension Writing</i>	<i>Written Comprehension Written Expression</i>
E7	CORE	Supervise division maintenance operations	<i>Management of Personnel Monitoring</i>	<i>Oral Expression Selective Attention</i>
E7	CORE	Supervise reactor fill system repair procedures	<i>Management of Personnel Monitoring</i>	<i>Oral Expression Selective Attention</i>
E7	CORE	Supervise reactor fill system testing procedures	<i>Management of Personnel Monitoring</i>	<i>Oral Expression Selective Attention</i>