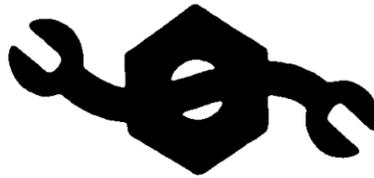


CHAPTER 18



CONSTRUCTION MECHANIC (CM)

NAVPERS 18068-18E

CH-65

Updated: January 2016

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NAVY ENLISTED OCCUPATIONAL STANDARD

FOR

CONSTRUCTION MECHANIC (CM)



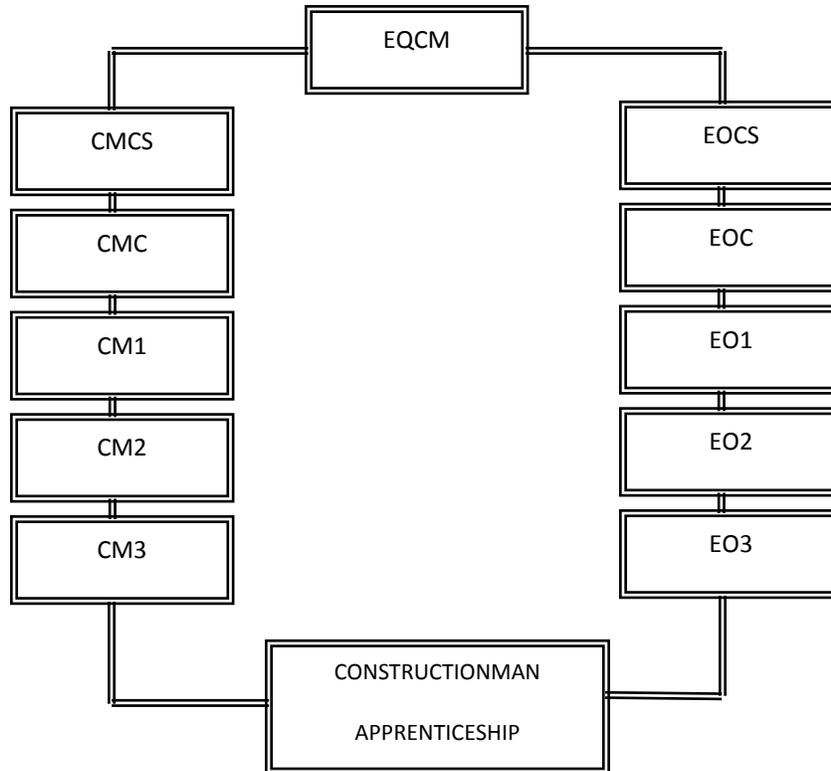
SCOPE OF RATING

Construction Mechanics (CM) perform tasks involved in diagnosis, maintenance, repair, and overhaul of automotive, material/weight handling and construction equipment; assign and supervise activities of personnel who locate, analyze, and correct malfunctions in equipment; research, order, and receive repair parts; maintain records; prepare requisitions and reports; train personnel in repair procedures and techniques; maintain individual combat and operational readiness; and perform tasks required in combat and disaster preparedness or recovery operations.

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) as Chapter 18.

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**Construction Mechanic****Job Code****002604****Job Family**

Installation, Maintenance, and Repair

NOC

TBD

Short Title (30 Characters)

CONSTRUCTION MECHANIC

Short Title (14 Characters)

CONSTRUCT MECH

Pay Plan

Enlisted

Career Field

CM

Other Relationships and Rules

All NEC's listed as the Rating Source.

Job Description

Construction Mechanics perform tasks involved in diagnosis, maintenance, repair, and overhaul of automotive, material/weight handling, and construction equipment; assign and supervise activities of personnel who locate, analyze, and correct malfunctions in equipment; research, order, and receive repair parts; maintain records; prepare requisitions and reports; train personnel in repair procedures and techniques; and prepare progress reports, time records and schedules for projects. As shop supervisors, they plan, staff, direct, and control multiple work centers to include problem solving, planning, scheduling, cost control and personnel management ensuring compliance with specifications, code requirements, plans, and contracts; and act as work center supervisors and trainers for junior personnel.

DoD RelationshipGroup Title

Construction Equipment

DoD Code

161200

O*NET RelationshipOccupation Title

Automotive Master Mechanics

SOC Code

49-3023.01

Job Family

Installation, Maintenance, and

Skills*Systems Evaluation**Equipment Selection**Troubleshooting**Critical Thinking**Repairing**Coordination**Quality Control Analysis**Equipment Maintenance**Management of Personnel Resources**Installation***Abilities***Problem Sensitivity**Deductive Reasoning**Control Precision**Oral Comprehension**Finger Dexterity**Multi-limb Coordination**Written Comprehension**Information Ordering**Inductive Reasoning**Manual Dexterity***BODY SYSTEMS****Paygrade****Task Type****Task Statements**

E4

CORE

Inspect force protection materials on vehicles

E4

CORE

Install force protection materials on vehicles

E4

NON-CORE

Paint equipment

E4

CORE

Perform corrosion prevention and control procedures

E5

CORE

Perform oxygen/gas cutting and welding

E4

NON-CORE

Prepare surfaces for painting

E4

CORE

Repair vehicle body damage

E5

CORE

Weld ferrous/non-ferrous metals

BRAKE SYSTEMS**Paygrade****Task Type****Task Statements**

E6

CORE

Inspect anti-lock brake system components

E6

CORE

Inspect hydraulic brake system components

E6

CORE

Inspect pneumatic brake system components

E4

CORE

Install anti-lock brake system components

E4

CORE

Install hydraulic brake system components

E4

CORE

Install pneumatic brake system components

E4

CORE

Maintain brake system components

E4	CORE	Repair anti-lock brake system components
E4	CORE	Repair hydraulic brake system components
E4	CORE	Repair pneumatic brake system components
E5	CORE	Troubleshoot anti-lock brake system components
E5	CORE	Troubleshoot hydraulic brake system components
E5	CORE	Troubleshoot pneumatic brake system components

CHASSIS SYSTEMS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Assemble wheel components
E4	CORE	Balance wheel and tire assemblies
E6	CORE	Inspect track components
E6	CORE	Inspect wheel and tire assemblies
E4	CORE	Install track components
E4	CORE	Maintain track components
E4	CORE	Repair track components
E4	CORE	Repair wheel and tire assemblies
E5	CORE	Troubleshoot track components
E5	CORE	Troubleshoot wheel and tire assemblies

CLIMATE CONTROL

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E6	CORE	Inspect air conditioning systems
E6	CORE	Inspect heating systems
E6	CORE	Inspect ventilation systems
E4	CORE	Repair air conditioning systems
E4	CORE	Repair heating systems
E4	CORE	Repair ventilation systems
E5	CORE	Troubleshoot air conditioning systems
E5	CORE	Troubleshoot heating systems
E5	CORE	Troubleshoot ventilation systems

COOLING SYSTEMS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Inspect cooling systems
E4	CORE	Maintain cooling system components
E4	CORE	Repair cooling system components
E4	CORE	Troubleshoot cooling systems

HYDRAULIC AND PNEUMATIC SYSTEMS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Adjust hydraulic systems
E4	CORE	Adjust pneumatic systems
E6	CORE	Inspect hydraulic components

E6	CORE	Inspect pneumatic components
E4	CORE	Install hydraulic components
E4	CORE	Install pneumatic components
E4	CORE	Repair hydraulic system components
E4	CORE	Repair pneumatic system components
E5	CORE	Troubleshoot hydraulic systems
E5	CORE	Troubleshoot pneumatic systems

INTERNAL COMBUSTION ENGINES

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Adjust diesel engine components
E5	CORE	Adjust gasoline engine components
E6	CORE	Inspect diesel engine components
E6	CORE	Inspect gasoline engine components
E4	CORE	Install diesel engine components
E4	CORE	Install gasoline engine components
E4	CORE	Maintain diesel engines
E4	CORE	Maintain gasoline engines
E4	CORE	Repair diesel engine components
E4	CORE	Repair gasoline engine components
E5	CORE	Troubleshoot diesel engine systems
E5	CORE	Troubleshoot gasoline engine systems

MAINTENANCE AND MATERIAL MANAGEMENT (3M)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E7	NON-CORE	Perform duties as 3M division officer
E6	NON-CORE	Perform duties as 3M Work Center Supervisor (WCS)
E4	NON-CORE	Perform duties as maintenance person
E4	NON-CORE	Perform duties as Repair Parts Petty Officer (RPPO)

POWER GENERATION

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	NON-CORE	Adjust power generation components
E5	NON-CORE	Perform generator operational load tests
E5	NON-CORE	Repair power generation components
E5	NON-CORE	Troubleshoot power generation components

POWER TRAINS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Adjust auxiliary system components
E4	CORE	Adjust drive train components
E6	CORE	Inspect auxiliary system components
E6	CORE	Inspect drive train components
E4	CORE	Install auxiliary system components

E4	CORE	Install drive train components
E4	CORE	Repair auxiliary system components
E4	CORE	Repair drive train components
E5	CORE	Troubleshoot auxiliary system components
E5	CORE	Troubleshoot drive train components

SEABEE COMMON CORE

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Apply combat life saving techniques
E4	CORE	Conduct Chemical, Biological, Radiological and Nuclear Explosive (CBRNE) defensive operations
E4	CORE	Conduct convoy operations
E4	CORE	Conduct Disaster Recovery Operations (DRO)
E4	CORE	Conduct embarkation and debarkation operations
E6	CORE	Conduct Maritime Prepositioning Force (MPF) operations
E4	CORE	Conduct personal protection and decontamination operations
E4	CORE	Employ Advance Base Functional Component (ABFC) systems
E4	CORE	Employ grenades, mines, and pyrotechnics
E4	CORE	Employ land survival techniques
E4	NON-CORE	Maintain crew-served weapons
E4	CORE	Maintain field communications equipment
E4	CORE	Maintain Personal Gear Issue (PGI)
E4	CORE	Maintain small arms
E4	NON-CORE	Operate crew-served weapons
E4	CORE	Operate field communications equipment
E4	CORE	Operate small arms
E4	CORE	Patrol assigned areas
E7	CORE	Perform command and control of a company
E4	CORE	Perform command and control of a fire team
E6	CORE	Perform command and control of a platoon
E5	CORE	Perform command and control of a squad
E7	NON-CORE	Plan convoy operations
E4	CORE	Repair damaged airfields
E4	CORE	Set tactical defenses
E7	NON-CORE	Supervise Airfield Damage Repair (ADR) operations

STEERING AND SUSPENSION SYSTEMS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Adjust steering system components
E5	CORE	Adjust suspension system components
E6	CORE	Inspect steering system components
E6	CORE	Inspect suspension system components

E4	CORE	Install steering system components
E4	CORE	Install suspension system components
E4	CORE	Repair steering system components
E4	CORE	Repair suspension system components
E5	CORE	Troubleshoot steering systems
E5	CORE	Troubleshoot suspension systems

TABLE OF ALLOWANCE (TOA) MANAGEMENT

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E6	CORE	Inspect Civil Engineering Support Equipment (CESE)
E4	NON-CORE	Maintain technical libraries
E4	CORE	Maintain tool rooms
E7	CORE	Manage Battalion Equipment Evaluation Program (BEEP)
E7	CORE	Manage equipment maintenance programs
E7	CORE	Manage tool room operations
E6	CORE	Supervise Battalion Equipment Evaluation Program (BEEP)
E6	CORE	Supervise equipment maintenance support shop operations
E6	CORE	Supervise heavy equipment maintenance shop operations
E6	CORE	Supervise Inactive Equipment Maintenance (IEM) program
E6	CORE	Supervise light equipment maintenance shop operations

UNDERWATER CONSTRUCTION

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	NON-CORE	Conduct oceanographic surveys
E5	NON-CORE	Maintain diving equipment
E5	NON-CORE	Maintain diving support equipment
E7	NON-CORE	Manage demolition operations
E7	NON-CORE	Manage diving emergency procedures
E7	NON-CORE	Manage diving equipment maintenance
E7	NON-CORE	Manage diving support equipment maintenance
E7	NON-CORE	Manage light salvage operations
E7	NON-CORE	Manage Maritime Prepositioning Force (MPF) pre-offload operations
E7	NON-CORE	Manage Naval Sea Systems Command (NAVSEA) system certification programs
E7	NON-CORE	Manage oceanographic surveys
E7	NON-CORE	Manage Offshore Petroleum Distribution System (OPDS) operations
E7	NON-CORE	Manage Remote Operated Vehicle (ROV) operations
E7	NON-CORE	Manage small craft operations
E7	NON-CORE	Manage underwater construction operations
E5	NON-CORE	Perform coxswain duties
E5	NON-CORE	Perform demolition operations
E5	NON-CORE	Perform diving emergency procedures
E5	NON-CORE	Perform diving operations

E5	NON-CORE	Perform light salvage operations
E5	NON-CORE	Perform Maritime Prepositioning Force (MPF) pre-offload operations
E5	NON-CORE	Perform Offshore Petroleum Distribution System (OPDS) operations
E5	NON-CORE	Perform Remote Operated Vehicle (ROV) operations
E5	NON-CORE	Perform small craft operations
E5	NON-CORE	Perform underwater construction operations
E6	NON-CORE	Supervise demolition operations
E6	NON-CORE	Supervise diving emergency procedures
E6	NON-CORE	Supervise diving equipment maintenance
E6	NON-CORE	Supervise diving operations
E6	NON-CORE	Supervise diving support equipment maintenance
E6	NON-CORE	Supervise light salvage operations
E6	NON-CORE	Supervise Maritime Prepositioning Force (MPF) pre-offload operations
E6	NON-CORE	Supervise Naval Sea Systems Command (NAVSEA) system certification program
E6	NON-CORE	Supervise oceanographic surveys
E6	NON-CORE	Supervise Offshore Petroleum Distribution System (OPDS) operations
E6	NON-CORE	Supervise Remote Operated Vehicle (ROV) operations
E6	NON-CORE	Supervise small craft operations
E6	NON-CORE	Supervise underwater construction operations

VEHICLE/EQUIPMENT ELECTRICAL SYSTEMS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Install charging system components
E4	CORE	Install electrical components
E4	CORE	Install starting system components
E4	CORE	Repair charging system components
E4	CORE	Repair electrical systems
E4	CORE	Repair starting system components
E4	CORE	Troubleshoot charging system components
E4	CORE	Troubleshoot electrical components
E4	CORE	Troubleshoot starting system components

VEHICLE/EQUIPMENT ELECTRONIC AND DIAGNOSTIC SYSTEMS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Calibrate electronic system components
E4	CORE	Install electronic components
E4	CORE	Repair electronic systems
E4	CORE	Repair wire harnesses
E4	CORE	Replace actuators
E5	CORE	Replace Electronic Control Modules (ECM)
E4	CORE	Replace sensors

E4	CORE	Replace wire harnesses
E4	CORE	Test electronic systems
E5	CORE	Troubleshoot actuators
E5	CORE	Troubleshoot Electronic Control Module (ECM)
E5	CORE	Troubleshoot electronic systems
E5	CORE	Troubleshoot sensors
E5	CORE	Troubleshoot wire harnesses

VEHICLE/EQUIPMENT FUEL SYSTEMS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Calibrate diesel fuel system components
E5	CORE	Calibrate gasoline fuel system components
E4	CORE	Repair diesel fuel system components
E4	CORE	Repair gasoline fuel system components
E4	CORE	Troubleshoot diesel fuel systems
E4	CORE	Troubleshoot gasoline fuel systems

WEIGHT HANDLING EQUIPMENT

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	NON-CORE	Adjust crane systems
E5	NON-CORE	Inspect crane systems
E7	CORE	Manage crane maintenance programs
E5	NON-CORE	Repair crane systems
E6	CORE	Supervise crane maintenance program operations
E5	NON-CORE	Troubleshoot crane systems