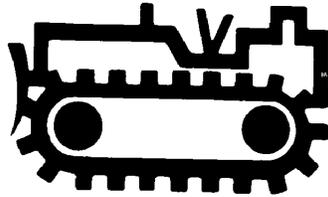


CHAPTER 31



EQUIPMENT OPERATOR (EO)

NAVPERS 18068-31F
CH-77

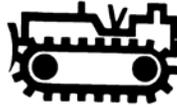
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NAVY ENLISTED OCCUPATIONAL STANDARD

FOR

EQUIPMENT OPERATOR (EO)



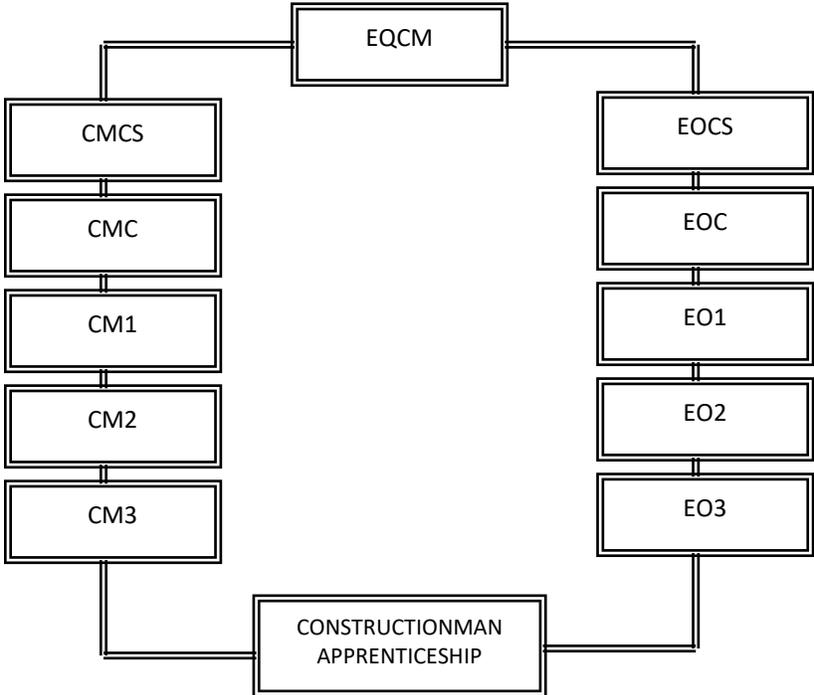
SCOPE OF RATING

Equipment Operators (EO) perform tasks involving deployment, operation, and maintenance of automotive, materials handling, weight handling, and construction equipment; direct and coordinate efforts of individuals and crews in execution of construction, earth-moving, road building, quarry operations, water well operations, asphalt paving, mineral products operations, and soil stabilization; maintain administrative requirements for mobile and stationary equipment; maintain individual combat readiness; and perform tasks required in combat and disaster preparedness and 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 31.

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

Equipment Operators

Job Code

001165

Job Family

Construction and Extraction

NOC

TBD

Short Title (30 Characters)

EQUIPMENT OPERATOR

Short Title (14 Characters)

EQUIP OPERATOR

Pay Plan

Enlisted

Career Field

EO

Other Relationships and Rules

NEC BXXX series,717B, 718B, 804G, 833A and other NECs as assigned

Job Description

Equipment Operators perform tasks involving deployment, operation, and maintenance of automotive, materials handling, weight handling, and construction equipment; direct and coordinate efforts of individuals and crews in execution of construction, earth moving, road-building, blasting and quarry operations, water well operations, asphalt paving, mineral products operations, and soil stabilization; maintain administrative requirements for mobile and stationary equipment; maintain individual combat readiness; and perform tasks required in combat and disaster preparedness and recovery operations. As project managers, they plan, staff, direct, and control multiple construction projects and act as project supervisors and trainers for junior personnel.

DoD Relationship

Group Title

Construction Equipment
Operation

DoD Code

171300

O*NET Relationship

Occupation Title

Operating Engineers and Other
Construction Equipment Operators

SOC Code

47-2073.00

Job Family

Construction and Extraction

Skills

Equipment Selection

Operation and Control

Critical Thinking

Management of Personnel Resources

Management of Material Resources

Reading Comprehension

Mathematics

Quality Control Analysis

Complex Problem Solving

Equipment Maintenance

Abilities

Information Ordering

Problem Sensitivity

Oral Expression

Deductive Reasoning

Visualization

Fluency of Ideas

Written Comprehension

Selective Attention

Memorization

Spatial Orientation

CONSTRUCTION MANAGEMENT

Paygrade

Task Type

Task Statements

E6

NON-CORE

Conduct three-phase quality control inspections

E5

CORE

Develop construction activities

E5

CORE

Develop construction environmental protection plans

E4

CORE

Develop construction estimates

E5

CORE

Develop construction project packages

E4

CORE

Develop construction project sketches and diagrams

E5

CORE

Develop construction safety plans

E5

CORE

Develop master activities

E5

CORE

Develop project three-phase quality control plans

E6

CORE

Establish construction site layouts

E5

CORE

Input project data into construction management software and tools

E5

CORE

Inspect construction materials

E5

CORE

Interpret construction project drawings and specifications

E4

CORE

Inventory project tools and materials

E5

CORE

Lead construction project crew

E7

CORE

Manage construction project resources

CONSTRUCTION MANAGEMENT (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E7	CORE	Manage construction project(s)
E7	CORE	Manage construction safety plans
E7	CORE	Manage job site construction operations (e.g. quality control and safety plan implementation, job site information board, level III chart, etc.)
E7	CORE	Manage project quality control plan(s)
E7	CORE	Manage three-phase quality control process
E6	NON-CORE	Monitor construction project contracts
E6	CORE	Supervise construction project crew(s)
E5	CORE	Supervise construction project safety operations
E6	CORE	Supervise environmental protection plans
E6	CORE	Supervise planning and estimating operations
E6	CORE	Supervise project three-phase quality control process
E5	CORE	Turnover construction project
E6	CORE	Validate construction project packages
E5	NON-CORE	Validate project surveys and elevation data

EARTHWORK

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Classify soil types
E4	CORE	Compact earthwork materials
E4	CORE	Compute earthwork mathematical equations (e.g. elevations, grade stakes, material volumes)
E4	CORE	Conduct site and elevation surveys
E5	CORE	Develop earthwork sketches and diagrams
E5	CORE	Develop site drainage plans
E4	CORE	Distribute water (i.e. water wagon, water tanker, water truck)
E4	CORE	Establish finished grade
E4	CORE	Establish rough grade
E4	CORE	Excavate ditch
E4	CORE	Excavate materials
E4	CORE	Excavate trench
E5	CORE	Interpret earthwork drawings and specifications
E4	CORE	Load soil and earth materials
E4	CORE	Prepare construction site (i.e. clearing, grubbing, stripping and pioneering)
E5	CORE	Stabilize earthwork materials
E5	CORE	Supervise scraper operations
E4	CORE	Transport soil and earth materials
E6	CORE	Validate earthwork surveys and elevation data

EQUIPMENT MANAGEMENT

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Dispatch equipment
E5	CORE	Manage collateral equipage
E6	CORE	Manage equipment licensing programs
E7	CORE	Manage transportation operations
E5	CORE	Supervise equipment yard operations
E6	CORE	Supervise transportation operations

MATERIAL HANDLING EQUIPMENT (MHE)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Configure underslung loads using Material Handling Equipment (MHE) (i.e. utilizing certified rigging gear to lift load)
E4	CORE	Handle cargo and materials using Material Handling Equipment (MHE) (e.g. extended boom, rough terrain, container handling, warehouse, forklift)
E6	CORE	Manage Material Handling Equipment (MHE) licensing programs
E4	CORE	Perform aircraft loading and unloading Material Handling Equipment (MHE) operations
E4	CORE	Perform explosive ordnance Material Handling Equipment (MHE) operations

MINERAL PRODUCTS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Develop quarry layout
E7	CORE	Develop quarry plans
E4	CORE	Drill rock
E7	CORE	Manage ammunition and explosives qualification/certification programs
E7	CORE	Manage mineral products operations
E7	CORE	Manage quarry operations (e.g. mucking, sorting, transportation of blast rock)
E4	CORE	Mix concrete using transit mixer
E4	CORE	Perform quarry operations (e.g. mucking, sorting, transportation of blast rock)
E4	CORE	Produce material utilizing mineral products plant equipment (e.g. asphalt plant, concrete plant, washing/screening plant, crushers)
E6	CORE	Supervise quarry operations (e.g. mucking, sorting, transportation of blast rock)
E4	CORE	Transport concrete using transit mixer

PAVEMENTS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Apply asphalt surface treatments (e.g. chip seal, prime and tack coats, slurry coat)
E5	CORE	Develop pavement sketches and diagrams
E6	CORE	Manage asphalt placement
E4	CORE	Place asphalt
E5	CORE	Repair asphalt (e.g. patching a pothole, cold-patch)
E5	CORE	Supervise asphalt placement

SEABEE COMMON CORE

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Apply combat life saving techniques
E5	NON-CORE	Assess airfield damage
E6	NON-CORE	Assist Maritime Prepositioning Force (MPF) operations
E4	NON-CORE	Conduct convoy security operations
E4	NON-CORE	Conduct crew-served weapons operational checks
E4	CORE	Conduct field communications equipment operational checks
E7	NON-CORE	Conduct Humanitarian Assistance and Disaster Relief (HADR)
E4	CORE	Conduct personal protection and decontamination (DECON) procedures
E4	CORE	Conduct small arms operational checks
E4	CORE	Employ Advance Base Functional Component (ABFC) systems
E4	NON-CORE	Employ crew-served weapons
E4	CORE	Employ field communications equipment
E4	CORE	Employ grenades, mines, and pyrotechnics
E4	CORE	Employ land survival techniques
E4	CORE	Employ small arms
E4	CORE	Maintain Personal Gear Issue (PGI)
E4	NON-CORE	Palletize cargo and equipment
E4	CORE	Patrol assigned areas
E5	NON-CORE	Perform arrival and departure airfield control group (AACG&DACG) procedures
E4	NON-CORE	Perform Chemical, Biological, Radiological, and Nuclear Defense (CBRND) reconnaissance (i.e. surveying, monitoring, and marking)
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
E4	NON-CORE	Perform detailed troop and equipment decontamination (DECON)
E5	NON-CORE	Plan Advance Base Functional Component (ABFC) systems setup
E5	NON-CORE	Plan Airfield Damage Repair (ADR)
E5	NON-CORE	Plan convoy operations
E7	NON-CORE	Plan convoy security operations
E5	NON-CORE	Plan load for embarkation
E6	NON-CORE	Plan unit embarkation
E4	CORE	Prepare cargo and equipment for transport (e.g. weight, balance, and marking)
E4	NON-CORE	Prepare hazardous materials (HAZMAT) for transport
E4	NON-CORE	Repair damaged airfields
E4	CORE	Set tactical defenses
E6	NON-CORE	Supervise Advance Base Functional Component (ABFC) setup
E7	NON-CORE	Supervise Airfield Damage Repair (ADR) operations

SEABEE COMMON CORE (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E7	NON-CORE	Supervise Chemical, Biological, Radiological, and Nuclear Defense (CBRND) operations
E6	NON-CORE	Supervise convoy operations
E6	NON-CORE	Supervise convoy security operations
E7	NON-CORE	Supervise embarkation and debarkation operations
E4	CORE	Transport troops and equipment (e.g. convoy)

TRANSPORTATION OPERATIONS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Conduct first echelon level maintenance on Civil Engineer Support Equipment (CESE)
E4	CORE	Conduct vehicle recovery operations (e.g. Medium Tactical Vehicle Replacement (MTVR), bulldozer)
E4	CORE	Configure load for transportation (i.e. proper weight and size distribution)
E4	CORE	Distribute fuel
E4	CORE	Secure equipment and materials for transportation
E4	CORE	Transport equipment and materials
E4	CORE	Transport explosive ordnance materials
E4	CORE	Transport personnel
E4	CORE	Transport water (i.e. water tank, water truck, six-con)

UNDERWATER CONSTRUCTION

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	NON-CORE	Conduct corrective maintenance on certified Diver's Life Support Systems (DLSS)
E5	NON-CORE	Conduct corrective maintenance on Self-Contained Underwater Breathing Apparatus (SCUBA) diving equipment
E5	NON-CORE	Conduct corrective maintenance on Surface Supplied Diving (SSD) equipment
E5	NON-CORE	Conduct corrective maintenance on underwater construction equipment and tools
E5	NON-CORE	Conduct maritime defensive operations
E5	NON-CORE	Conduct oceanographic surveys
E5	NON-CORE	Conduct preventive maintenance on cable systems
E5	NON-CORE	Conduct preventive maintenance on certified Diver's Life Support Systems (DLSS)
E5	NON-CORE	Conduct preventive maintenance on fleet moorings
E5	NON-CORE	Conduct preventive maintenance on pipelines
E5	NON-CORE	Conduct preventive maintenance on Self-Contained Underwater Breathing Apparatus (SCUBA) diving equipment
E5	NON-CORE	Conduct preventive maintenance on Surface Supplied Diving (SSD) equipment
E5	NON-CORE	Conduct preventive maintenance on underwater construction equipment and tools
E5	NON-CORE	Conduct preventive maintenance on waterfront facilities
E5	NON-CORE	Conduct terrestrial construction demolition using explosives
E5	NON-CORE	Conduct underwater construction demolition using explosives
E5	NON-CORE	Conduct underwater search and recovery operations

UNDERWATER CONSTRUCTION (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	NON-CORE	Construct cable systems
E5	NON-CORE	Construct fleet moorings
E5	NON-CORE	Construct pipelines
E5	NON-CORE	Construct waterfront facilities
E5	NON-CORE	Deploy underwater vehicles (e.g. Remotely Operated Vehicle (ROV) / Autonomous Underwater Vehicle (AUV) / Unmanned Underwater Vehicle (UUV))
E5	NON-CORE	Inspect cable systems
E5	NON-CORE	Inspect fleet moorings
E5	NON-CORE	Inspect pipelines
E5	NON-CORE	Inspect waterfront facilities
E7	NON-CORE	Manage diving emergency incidents
E7	NON-CORE	Manage diving equipment maintenance and certification (e.g. Self-Contained Underwater Breathing Apparatus (SCUBA), Surface Supplied Diving (SSD), Diver's Life Support System (DLSS))
E7	NON-CORE	Manage light salvage operations
E7	NON-CORE	Manage Ocean Facilities inspection
E7	NON-CORE	Manage Ocean Facilities maintenance
E7	NON-CORE	Manage oceanographic survey teams
E7	NON-CORE	Manage Offshore Petroleum Distribution System (OPDS) operations
E7	NON-CORE	Manage terrestrial explosive construction demolition operations
E7	NON-CORE	Manage underwater construction equipment and tools maintenance
E7	NON-CORE	Manage underwater construction projects
E7	NON-CORE	Manage underwater explosive construction demolition operations
E7	NON-CORE	Manage underwater search and recovery operations
E7	NON-CORE	Manage watercraft program
E5	NON-CORE	Perform diving emergency procedures
E5	NON-CORE	Perform light salvage operations
E5	NON-CORE	Perform Offshore Petroleum Distribution System (OPDS) operations
E6	NON-CORE	Plan terrestrial explosive construction demolition
E6	NON-CORE	Plan underwater explosive construction demolition
E5	NON-CORE	Provide diving assistance during Maritime Prepositioning Force (MPF) operations
E5	NON-CORE	Repair cable systems
E5	NON-CORE	Repair fleet moorings
E5	NON-CORE	Repair pipelines
E5	NON-CORE	Repair waterfront facilities
E6	NON-CORE	Supervise construction of fleet moorings, waterfront facilities, pipelines, and cable Systems
E6	NON-CORE	Supervise diving emergency incidents

UNDERWATER CONSTRUCTION (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E6	NON-CORE	Supervise diving equipment maintenance and certification (e.g. Self-Contained Underwater Breathing Apparatus (SCUBA), Surface Supplied Diving (SSD), Diver's Life Support System (DLSS))
E6	NON-CORE	Supervise hyperbaric treatments
E6	NON-CORE	Supervise inspection of fleet moorings, waterfront facilities, pipelines, and cable systems
E6	NON-CORE	Supervise light salvage operations
E6	NON-CORE	Supervise oceanographic survey team
E6	NON-CORE	Supervise Offshore Petroleum Distribution System (OPDS) operations
E6	NON-CORE	Supervise preventive maintenance of fleet moorings, waterfront facilities, pipelines, and cable systems
E6	NON-CORE	Supervise repairs of fleet moorings, waterfront facilities, pipelines, and cable systems
E6	NON-CORE	Supervise terrestrial explosive construction demolition operations
E6	NON-CORE	Supervise underwater construction equipment and tools maintenance
E6	NON-CORE	Supervise underwater explosive construction demolition operations
E6	NON-CORE	Supervise underwater search and recovery operations
E6	NON-CORE	Supervise watercraft crew during operations
E5	NON-CORE	Transport divers, personnel, and equipment using watercraft

WATER WELL

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	NON-CORE	Abandon well
E4	NON-CORE	Conduct corrective maintenance on water well equipment (e.g. rebuild mud pump, rebuild downhole hammer)
E6	NON-CORE	Determine drilling methods
E5	NON-CORE	Develop well
E5	NON-CORE	Drill well
E4	NON-CORE	Prep site for drilling
E5	NON-CORE	Repair wells
E7	NON-CORE	Select water well drilling sites
E7	NON-CORE	Submit water well closeout reports
E7	NON-CORE	Supervise water well drilling operations

WEIGHT HANDLING EQUIPMENT (WHE)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E7	NON-CORE	Certify Weight Handling Equipment (WHE)
E5	NON-CORE	Conduct crane specialty operations (i.e. clamshell, dragline, pile driving)
E4	NON-CORE	Conduct first echelon maintenance on Weight Handling Equipment (WHE)
E5	CORE	Develop lift plan sketches and diagrams
E5	NON-CORE	Lift load using hook block (e.g. cargo handling, amphibious, shipboard)

WEIGHT HANDLING EQUIPMENT (WHE) (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	NON-CORE	Load test Weight Handling Equipment (WHE)
E6	NON-CORE	Maintain Weight Handling Equipment (WHE) records
E6	NON-CORE	Manage Weight Handling Equipment (WHE) licensing programs
E5	NON-CORE	Perform specialized hook block operations (e.g. cargo handling, amphibious, shipboard)
E4	CORE	Rig load
E6	NON-CORE	Supervise crane crew operations
E7	NON-CORE	Supervise Weight Handling Equipment (WHE) load test
E6	NON-CORE	Supervise Weight Handling Equipment (WHE) maintenance