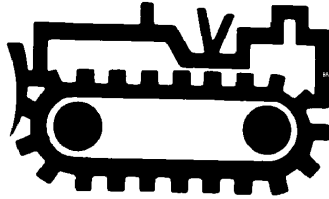


# CHAPTER 31



## EQUIPMENT OPERATOR (EO)

NAVPERS 18068F-31H  
Change 100

Updated: October 2024

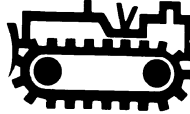
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NAVY ENLISTED OCCUPATIONAL STANDARD

FOR

EQUIPMENT OPERATOR (EO)



SCOPE OF RATING

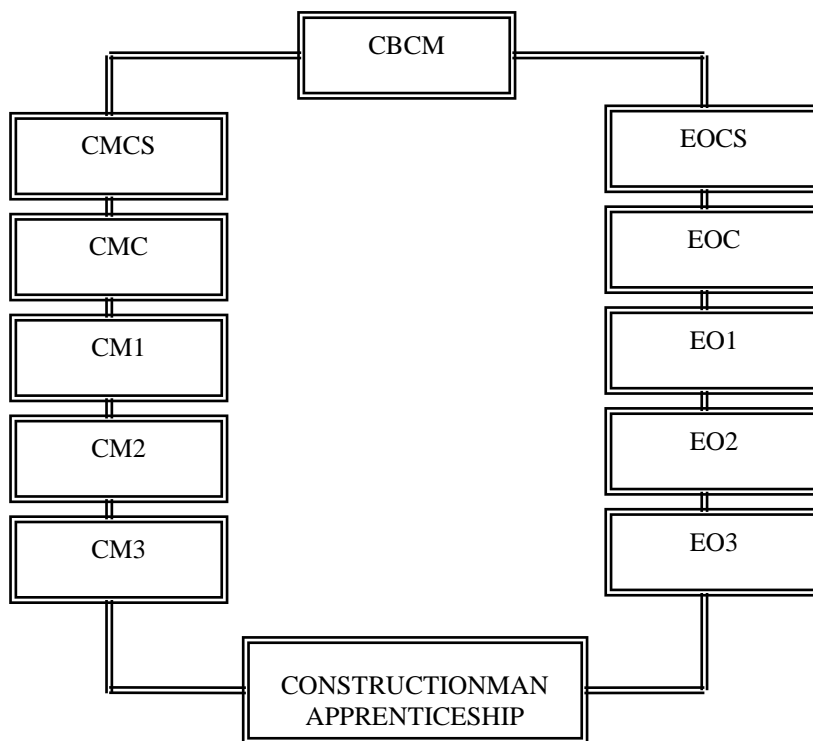
Equipment Operators (EO) execute the operation and maintenance of automotive, material handling, weight handling, and construction equipment; direct and coordinate efforts of individuals and crews in performing construction projects, Quality Control (QC) inspections, earth-moving, road building, asphalt paving, soil stabilization, and various operations including transportation, blasting, quarry, mineral products, and water well; maintain administrative requirements for mobile and fixed equipment; maintain combat readiness; and perform tasks required in combat and disaster preparedness and recovery operations.

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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 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.**

\*Career path updated to reflect rating name change to Seabee Master Chief (CBCM) – NAVADMIN 054/21 refers

**Job Title****Equipment Operator****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**

NECs BXXX series and other NECs as assigned

**Job Description**

Equipment Operators (EO) execute the operation and maintenance of automotive, material handling, weight handling, and construction equipment; direct and coordinate efforts of individuals and crews in performing construction projects, Quality Control (QC) inspections, earth-moving, road building, asphalt paving, soil stabilization, and various operations including transportation, blasting, quarry, mineral products, and water well; maintain administrative requirements for mobile and fixed equipment; maintain combat readiness; and perform tasks required in combat and disaster preparedness and recovery operations; act as project managers overseeing, organizing, and meeting Quality Assurance (QA) standards during the execution of construction projects.

**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***Operation and Control**Equipment Selection**Management of Material Resources**Critical Thinking**Judgment and Decision Making**Management of Personnel Resources**Quality Control Analysis**Mathematics**Complex Problem Solving**Monitoring***Abilities***Deductive Reasoning**Information Ordering**Oral Expression**Inductive Reasoning**Visualization**Selective Attention**Written Comprehension**Control Precision**Problem Sensitivity**Category Flexibility***CONSTRUCTION MANAGEMENT****Paygrade****Task Type****Task Statements**

E6

CORE

Conduct construction project turnovers

E6

NON-CORE

Conduct Three-Phase Quality Control inspections

E5

CORE

Develop construction activity summary sheets

E5

CORE

Develop construction estimates

E5

CORE

Develop construction project packages

E5

CORE

Develop construction project sketches and diagrams

E5

CORE

Develop construction safety plans

E5

CORE

Develop environmental protection plans

E5

CORE

Develop master activities listing

E6

CORE

Develop project Three-Phase Quality Control plans

E5

CORE

Establish construction site layouts

E5

CORE

Implement construction project drawings and specifications

E5

CORE

Input project data into construction management software and tools

E4

CORE

Inspect construction materials

E4

CORE

Inventory project tools and materials

E5

CORE

Lead construction project crews

E6

CORE

Manage construction project resources

E7

CORE

Manage construction projects

## CONSTRUCTION MANAGEMENT (CONT'D)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E7	CORE	Manage construction safety plans
E7	CORE	Manage job site construction operations (i.e., Quality Control (QC) and safety plan implementation, job site information board, level III chart, etc.)
E7	CORE	Manage project Quality Control (QC) plans
E7	NON-CORE	Manage Three-Phase Quality Control process
E6	CORE	Supervise construction project crews
E6	CORE	Supervise construction project safety operations
E6	CORE	Supervise environmental protection plans
E6	CORE	Supervise planning and estimating operations
E6	NON-CORE	Supervise project Three-Phase Quality Control process
E6	CORE	Validate construction project packages
E5	NON-CORE	Validate project surveys and elevation data
E6	NON-CORE	Verify construction project contract requirements

## EARTHWORK

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

### EXPEDITIONARY CONSTRUCTION

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Supervise equipment yard operations
E6	CORE	Supervise transportation operations
E5	NON-CORE	Assess airfield damages (data collection)
E5	NON-CORE	Assess pier damages
E5	NON-CORE	Plan Airfield Damage Repairs (ADR) (i.e., operational length determination, repair quality criteria, operating surface selection, etc.)
E5	NON-CORE	Plan Pier Damage Repairs (PDR)
E4	NON-CORE	Repair damaged airfields (i.e., debris clearing, material staging, spall repair, crater repair, etc.)
E4	NON-CORE	Repair damaged piers
E7	NON-CORE	Supervise Airfield Damage Repair (ADR) operations
E7	NON-CORE	Supervise Damage Repair (PDR) operations

### MINERAL PRODUCTS

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

### PAVEMENTS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Apply asphalt surface treatments (e.g., chip seal, prime and tack coats, slurry coat, etc.)
E5	CORE	Develop pavement sketches and diagrams
E7	CORE	Manage asphalt placement operations
E5	CORE	Place asphalt using asphalt paver
E4	CORE	Repair asphalt (i.e., patching a pothole, cold-patch, etc.)
E6	CORE	Supervise asphalt placement operations
E4	CORE	Transport asphalt

### 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, etc.)
E4	CORE	Configure loads for transportation (e.g., proper weight and size distribution, etc.)
E4	CORE	Configure loads using Material Handling Equipment (MHE)
E4	CORE	Distribute fuel
E4	CORE	Handle cargo and materials using Material Handling Equipment (MHE) (e.g., extended boom, rough terrain, container handling, warehouse, forklift, etc.)
E4	CORE	Perform aircraft loading and unloading Material Handling Equipment (MHE) operations
E4	NON-CORE	Perform explosive ordnance Material Handling Equipment (MHE) operations
E4	NON-CORE	Plan loads for embarkation operations
E6	NON-CORE	Plan unit embarkation operations
E4	CORE	Secure equipment and materials for transportation
E7	NON-CORE	Supervise embarkation and debarkation operations
E4	CORE	Transport equipment and materials
E4	NON-CORE	Transport explosive ordnance materials
E4	CORE	Transport personnel
E4	CORE	Transport water (e.g., water tank, water truck, six-con, etc.)

### WATER WELL

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

### WEIGHT HANDLING EQUIPMENT (WHE)

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	NON-CORE	Conduct crane specialty operations (e.g., clamshell, dragline, pile driving, etc.)
E4	CORE	Conduct first echelon maintenance on Weight Handling Equipment (WHE)
E6	NON-CORE	Conduct Weight Handling Equipment (WHE) certification procedures
E4	CORE	Develop lift plan sketches and diagrams
E4	NON-CORE	Lift loads using hook block (e.g., cargo handling, amphibious, shipboard, etc.)



**WEIGHT HANDLING EQUIPMENT (WHE) (CONT'D)**

<b><u>Paygrade</u></b>	<b><u>Task Type</u></b>	<b><u>Task Statements</u></b>
E6	NON-CORE	Maintain Weight Handling Equipment (WHE) records
E6	NON-CORE	Manage Weight Handling Equipment (WHE) licensing programs
E5	NON-CORE	Perform load tests using Weight Handling Equipment (WHE)
E4	CORE	Rig loads
E6	NON-CORE	Supervise crane crew operations
E7	NON-CORE	Supervise Weight Handling Equipment (WHE) load tests
E6	NON-CORE	Supervise Weight Handling Equipment (WHE) maintenance