

# CHAPTER 77



## UTILITIESMAN (UT)

NAVPERS 18068-77E  
CH-65

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NAVY ENLISTED OCCUPATIONAL STANDARD

FOR  
UTILITIESMAN (UT)



SCOPE OF RATING

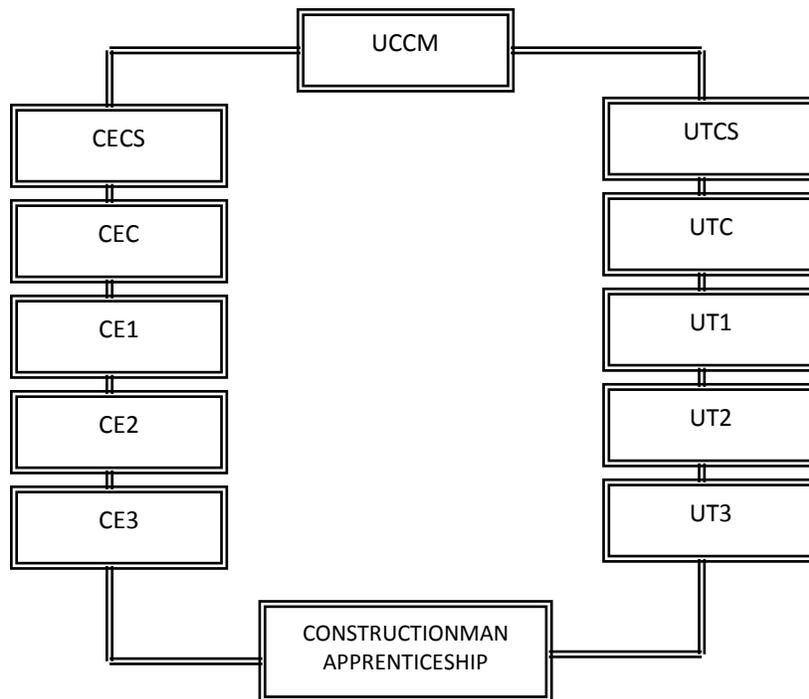
Utilitiesmen (UT) plan, supervise, and perform tasks involved in installation, maintenance, and repair of plumbing, heating, steam, compressed air, fuel storage and distribution systems, water treatment and distribution systems, air conditioning and refrigeration equipment, and septic systems, as prescribed by drawings and specifications; schedule and evaluate installation and operational tasks; prepare records and reports; maintain individual combat readiness; and perform tasks required in combat and disaster preparedness or 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) as Chapter 77.

## 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**  
**Utilitiesman**

**Job Code**  
**001797**

**Job Family**  
 Construction and Extraction

**NOC**  
 TBD

**Short Title (30 Characters)**  
 UTILITIESMAN

**Short Title (14 Characters)**  
 UTILITIESMAN

**Pay Plan**                      **Career Field**  
 Enlisted                              UT

**Other Relationships and Rules**  
 As assigned to Job

**Job Description**

Utilitiesmen plan, supervise, and perform tasks involved in installation, maintenance, and repair of plumbing, heating, steam, compressed air, fuel storage and distribution systems, water treatment and distribution systems, air conditioning and refrigeration equipment, and septic systems, as prescribed by drawings and specifications; schedule and evaluate installation and operational tasks; and prepare time records, progress reports, construction schedules, and material, labor, tool and equipment estimates for construction projects. As project managers, they plan, staff, direct, and control multiple construction projects to include problem solving, planning, estimating, scheduling, cost control, and personnel management ensuring compliance with specifications, code requirements, plans, and contracts; and act as project supervisors and trainers for junior personnel.

**DoD Relationship**

**Group Title**                      **DoD Code**  
 Utilities, General                      172000

**O\*NET Relationship**

**Occupation Title**                      **SOC Code**  
 Plumbers, Pipefitters, and                      47-2152.00  
 Steamfitters

**Job Family**  
 Construction and Extraction

**Skills**

*Management of Personnel Resources*  
*Management of Material Resources*  
*Critical Thinking*  
*Operation and Control*  
*Equipment Selection*  
*Equipment Maintenance*  
*Installation*  
*Operation Monitoring*  
*Systems Analysis*  
*Troubleshooting*

**Abilities**

*Deductive Reasoning*  
*Information Ordering*  
*Oral Expression*  
*Control Precision*  
*Visualization*  
*Manual Dexterity*  
*Problem Sensitivity*  
*Response Orientation*  
*Reaction Time*  
*Inductive Reasoning*

**BOILERS**

<b><u>Paygrade</u></b>	<b><u>Task Type</u></b>	<b><u>Task Statements</u></b>
E4	CORE	Conduct boiler system operational checks
E5	CORE	Conduct corrective maintenance on boiler systems
E4	CORE	Conduct preventive maintenance on boiler systems
E5	CORE	Install boiler systems
E7	CORE	Manage boiler installation and maintenance
E6	CORE	Supervise boiler installation and maintenance

**CONSTRUCTION MANAGEMENT**

<b><u>Paygrade</u></b>	<b><u>Task Type</u></b>	<b><u>Task Statements</u></b>
E6	CORE	Conduct three-phase quality control inspections
E4	CORE	Develop construction activity estimates
E5	CORE	Develop construction environmental protection plans
E5	CORE	Develop construction project packages
E5	CORE	Develop construction safety plans
E4	CORE	Develop construction sketches and diagrams
E5	CORE	Develop project three-phase quality control plans
E5	CORE	Establish construction site layouts
E4	CORE	Inspect construction materials
E6	CORE	Inspect construction projects

E4	NON-CORE	Interpret construction drawings and specifications
E4	CORE	Inventory project tools and materials
E5	CORE	Lead construction projects
E5	CORE	Maintain construction project resources
E5	CORE	Maintain facilities
E7	NON-CORE	Manage camp maintenance operations
E7	CORE	Manage construction environmental protection programs
E6	CORE	Manage construction project resources
E7	CORE	Manage construction projects
E7	CORE	Manage construction safety programs
E7	CORE	Manage facilities maintenance programs
E6	NON-CORE	Manage maintenance contracts
E7	CORE	Manage project quality control programs
E7	CORE	Manage three-phase quality control programs
E6	NON-CORE	Monitor construction project contracts
E5	CORE	Supervise construction project safety operations
E6	CORE	Supervise construction projects
E6	CORE	Supervise construction safety operations
E6	CORE	Supervise environmental protection programs
E6	CORE	Supervise facilities maintenance programs
E6	CORE	Supervise planning and estimating operations
E5	CORE	Supervise project three-phase quality control programs
E5	CORE	Turnover construction projects
E5	NON-CORE	Validate project surveys and elevation data

#### **FACILITIES MANAGEMENT**

<b><u>Paygrade</u></b>	<b><u>Task Type</u></b>	<b><u>Task Statements</u></b>
E6	NON-CORE	Audit facilities maintenance contracts
E4	CORE	Inspect facility utility systems
E7	CORE	Manage camp maintenance (e.g. 3M, MAXIMO)
E6	CORE	Schedule camp maintenance
E6	CORE	Supervise camp maintenance; (e.g. 3M, MAXIMO)

#### **HEATING, VENTILATING, AIR CONDITIONING, AND REFRIGERATION (HVAC/R)**

<b><u>Paygrade</u></b>	<b><u>Task Type</u></b>	<b><u>Task Statements</u></b>
E5	CORE	Conduct corrective maintenance on Heating, Ventilation, Air Conditioning, and Refrigeration (HVAC/R) systems
E4	CORE	Conduct Heating, Ventilation, Air Conditioning, and Refrigeration (HVAC/R) system operational checks
E4	CORE	Conduct preventive maintenance on Heating, Ventilation, Air Conditioning, and Refrigeration (HVAC/R) systems
E4	CORE	Install Heating, Ventilation, Air Conditioning, and Refrigeration (HVAC/R) systems

E7	CORE	Manage Heating, Ventilation, Air Conditioning, and Refrigeration (HVAC/R) installation and maintenance
E6	CORE	Supervise Heating, Ventilation, Air Conditioning, and Refrigeration (HVAC/R) installation and maintenance

### **PLUMBING**

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E4	CORE	Conduct corrective maintenance on Drain Waste Vent (DWV) systems
E4	CORE	Conduct corrective maintenance on fire hydrant systems
E5	CORE	Conduct corrective maintenance on sewer systems
E4	CORE	Conduct corrective maintenance on storm water drainage systems
E4	CORE	Conduct preventive maintenance on fire hydrant systems
E4	CORE	Conduct preventive maintenance on sewer systems
E4	CORE	Conduct preventive maintenance on water distribution systems
E4	NON-CORE	Establish construction plumbing elevations
E4	CORE	Install Drain Waste Vent (DWV) systems
E4	CORE	Install fire hydrant systems
E4	CORE	Install sewer systems
E4	CORE	Install storm water drainage systems
E4	CORE	Install water distribution systems and components
E7	CORE	Manage plumbing systems installation and maintenance
E6	CORE	Supervise plumbing system installation and maintenance

### **PUMPS AND COMPRESSED AIR SYSTEMS**

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Conduct corrective maintenance on compressed air systems
E5	CORE	Conduct corrective maintenance on pumps
E4	CORE	Conduct preventive maintenance on compressed air systems
E4	CORE	Conduct preventive maintenance on pumps
E5	CORE	Install compressed air systems
E4	CORE	Install pumps
E7	CORE	Manage pump installation and maintenance
E6	CORE	Supervise pump installation and maintenance

### **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	NON-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

#### **UNDERWATER CONSTRUCTION**

<b><u>Paygrade</u></b>	<b><u>Task Type</u></b>	<b><u>Task Statements</u></b>
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

#### UTILITIES EQUIPMENT

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Conduct corrective maintenance on galley equipment
E5	CORE	Conduct corrective maintenance on laundry equipment
E4	CORE	Conduct preventive maintenance on galley equipment
E4	CORE	Conduct preventive maintenance on laundry equipment
E4	CORE	Install galley equipment
E4	CORE	Install laundry equipment
E7	CORE	Manage utilities equipment installation and maintenance
E6	CORE	Supervise utilities equipment installation and maintenance

#### WASTE WATER SYSTEMS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Conduct corrective maintenance on waste water treatment systems
E5	CORE	Conduct preventive maintenance on waste water treatment systems
E5	CORE	Conduct waste water treatment system operational checks
E5	CORE	Install waste water treatment systems
E7	CORE	Manage waste water treatment system installation and maintenance
E6	CORE	Supervise waste water treatment system installation and maintenance

#### WATER TREATMENT

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E5	CORE	Conduct corrective maintenance on water treatment systems
E5	CORE	Conduct preventive maintenance on water treatment systems
E5	CORE	Conduct water treatment systems operational checks

E5	CORE	Identify water sources
E5	CORE	Install water treatment systems
E7	CORE	Manage water treatment system installation and maintenance
E6	CORE	Supervise water treatment system installation and maintenance