

PLUMBER

RAPIDS: 0432D

O*NET/SOC: 47-2152.02

REVISION DATE: 09/2019

TRADE DESCRIPTION: Assemble, install, or repair pipes, fittings, or fixtures of heating, water, or drainage systems, according to specifications or plumbing codes.

TASK PERFORMANCE: Demonstrate knowledge and skills for qualifying as Journeyman. Applicable Job Qualification Requirements will be used as a guide in performing tasks and demonstrating knowledge in the following skill areas. Actual work time must be recorded in the Work Experience Log; all skill areas must be completed.

Applicable Ratings/MOS/NEC

USMC MOS: 1169, 1171

USCG: DC

USN: HT, UT

USA MOS: 12H, 12K

Related Instruction:

Trade related On-The-Job-Training (OJT) or Any Trade related schools/courses totaling 288 or more hours.

Additional Requirement:

None

Total Hours: **4000**

Skill	Description	Hours
A	ADMINISTRATION -- Keep records of work assignments.	500

	<ul style="list-style-type: none"> -- Review blueprints, building codes, or specifications to determine work details or procedures. -- Estimate time, material, or labor costs for use in project plans. -- recommend energy or water saving products, such as low-flow faucets or shower heads, water-saving toilets, or high-efficiency hot water heaters. 	
B	<p>PREPARATION OF TOOLS, EQUIPMENT AND MATERIALS FOR PLUMBING AND HEATING</p> <ul style="list-style-type: none"> -- Anchor steel supports from ceiling joists to hold pipes in place. -- Inspect structures to assess material or equipment needs, to establish the sequence of pipe installations, or to plan installation around obstructions such as electrical wiring. 	800
C	<p>DRAIN PIPING AND FITTINGS</p> <ul style="list-style-type: none"> -- Assemble pipe sections, tubing, or fittings, using couplings, clamps, screws, bolts, cement, plastic solvent, caulking, or soldering, brazing, or welding equipment. -- Install pipe assemblies, fittings, valves, appliances such as dishwashers or water heaters, or fixtures such as sinks or toilets, using hand or power tools. -- Fill pipes or plumbing fixtures with water or air and observe pressure gauges to detect and locate leaks. -- Locate and mark the position of pipe installations, connections, passage holes, or fixtures in structures, using measuring instruments such as rulers or levels. -- Install underground storm, sanitary, or water piping systems, extending piping as needed to connect fixtures and plumbing. 	800
D	<p>PIPE CUTTING, REAMING, THREADING, FLANGING AND VENTING</p> <ul style="list-style-type: none"> -- Direct helpers engaged in pipe cutting, preassembly, or installation of plumbing systems or components. -- Measure, cut, thread, or bend pipe to required angle, using hand or power tools or machines such as pipe cutters, pipe-threading machines, or pipe-bending machines. -- Cut openings in structures to accommodate pipes or pipefittings, using hand or power tools. 	750
E	<p>INSTALLATION AND MAINTENANCE OF HOT, COLD AND STEAM WATER HEATING SYSTEMS AND APPLIANCES FOR DOMESTIC PURPOSES</p> <ul style="list-style-type: none"> -- Install water heaters gas and electric. -- Install green plumbing or water handling systems. -- Recommend energy or water saving products. 	650

	-- Install green plumbing equipment, such as faucet flow restrictors, dual flush toilets, high efficiency or tankless water heaters.	
F	MAINTENANCE AND REPAIR -- Maintain or repair plumbing by replacing defective washers, replacing or mending broken pipes, or opening clogged drains. -- Install alternative water sources, such as rainwater harvesting systems or graywater reuse systems. -- inspect work sites to determine condition or necessary repairs.	500