

# Work Processes Schedule

## PLUMBER

**RAPIDS: 0432M**

O\*NET/SOC: 47-2152.02

REVISION DATE: 12/2014

Assemble, install, and repair pipes, fittings, and fixtures of heating, water, and drainage systems, according to specifications and plumbing codes. Install, operate, inspect, perform preventative and corrective maintenance on pumps, water purification equipment, and water distribution systems. 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 areas. Actual work time must be recorded in the Work Experience Log.

### Applicable Ratings/MOS

USMC MOS 1169, 1171

USCG DC

USN HT, UT

### Related Instruction

Any trade related school(s) totaling 576 or more hours of classroom instruction.

### Additional Requirement

None

Total Hours: **8000**

Skill	Description	Hours
A	<p><b>CARE AND USE OF TOOLS AND MATERIAL</b></p> <p>Identifying material, fittings, grades and all types of pipe. Use and operation of tools. Maintaining tools and equipment.</p>	750
B	<p><b>PREPARATION OF TOOLS, EQUIPMENT AND MATERIALS FOR PLUMBING AND HEATING</b></p> <p>Selecting cast iron, galvanized and other types of piping for roughing in and finish work. Loading required material and equipment. Unloading at job site using safety cautions and care in not damaging equipment and materials.</p>	650
C	<p><b>DRAIN PIPING AND FITTINGS</b></p> <p>Determining kinds of pipe used underground, without a building above grade. Installing steel, or terra cotta piping. Pitching (elevating pipe for proper drainage using recessed drainage fittings as required by specifications and determining number of fixtures permissible on certain size waste lines.</p>	950
D	<p><b>VENTING</b></p> <p>Application and importance of venting. Installing main and branch venting, back venting and reventing in accordance with specifications.</p>	800
E	<p><b>PIPE CUTTING, REAMING, THREADING AND FLANGING</b></p> <p>Setting up and operating thread machine. Using hand cutters. Using taps and reamers.</p>	950

	Operating power drills.	
<b>F</b>	<b>INSTALLATION AND MAINTENANCE OF STEAM AND HOT WATER HEATING SYSTEMS</b> Fabrication of piping. Cutting and patching walls. Operating and testing for leaks. Repairing and replacing components.	900
<b>G</b>	<b>HOT AND COLD WATER SYSTEMS FOR DOMESTIC PURPOSES</b> Measuring and cutting pipes to specifications. Sweating copper joints. Measuring, cutting and threading galvanized pipe. Selecting fittings and installing valves. Installing in accordance with accepted code standards.	800
<b>H</b>	<b>SINGLE FIXTURE INSTALLATIONS</b> Installing commodes, bathtubs, sinks and urinals. Preparing position rests. Hanging, fastening, connecting and testing.	1200
<b>I</b>	<b>WATER HEATER INSTALLATION</b> Disconnecting old heater on replacement job. Installing and connecting new heater in conformance with new specification. Venting new units in accordance with specifications.	800
<b>J</b>	<b>GAS SYSTEM APPLIANCES</b> Selecting proper piping. Measuring, cutting and threading pipe. Application of unions and joints. Testing for leaks. Venting in accordance with accepted code standards.	200