

PLUMBER - PIPEFITTER

Work Processes	Approximate Hours	Monthly OJT Hours
1. Care and Use of Tools and Materials	550	_____
a) Identifying materials, fittings, grades and types of pipe		
b) Use and operation of trade tools		
c) Maintaining tools and equipment		
2. Preparation of Tools, Equipment and Material for Plumbing and Heating	400	_____
a) Selecting cast iron, galvanized and other types of piping for roughing in and finish work		
b) Loading required material and equipment		
c) Unloading at jobsite, using safety precautions and care in not damaging equipment and material		
3. Caulking Cast Iron Pipe	400	_____
a) Selecting and using proper tools for yarning oakum and caulking lead joints		
b) Operating and maintaining several types of furnaces (gasoline, bottled gas, etc.) in melting pig lead, following established safety precautions		
c) Using safety measures in handling hot oakum and pig lead required in pouring joints.		
d) Checking for presence of water to avoid danger when pouring moulten lead, etc.		
4. Drainage Piping and Fittings	800	_____
a) Determining kinds of pipes used underground, within a building above grade		
b) Installing cast iron, steel, or terra cotta piping		
c) Pitching pipe for proper drainage, using recessed drainage fittings as required by codes and determining number of fixtures permissible on certain size waste lines.		
5. Venting	450	_____
a) Learning the application and importance of venting		
b) Installing main and branch venting, back venting, and reventing in accordance with state and city codes		
6. Pipe Cutting, Reaming, Threading and Flanging	350	_____
a) Setting up and operating threading machine		
b) Using hand cutters		
c) Using taps and reamers		
d) Operating power drills		
7. Installation and Maintenance of Steam and Hot Water Heating System	1000	_____
a) Installing main components		
b) Fabrication of piping		
c) Cutting and patching walls		
d) Operating and testing for leaks		
e) Repairing and replacing components		

8.	Power and Industrial Process Piping a) Fabricating and installing of high pressure and special alloy piping b) Welding pipe c) Detail testing prior to operation of system	750	_____
9.	High and Low Pressure Boilers a) Installing boilers b) Fabricating and installing piping c) Testing and placing in operation d) Instructing operating personnel	750	_____
10.	Hot and Cold Water Systems for Domestic Purposes a) Measuring and cutting pipes to specifications b) Sweating copper joints c) Measuring, cutting and threading galvanized pipe d) Selecting, fitting and installing valves e) Installing in accordance with accepted code standards	800	_____
11.	Gas System Appliances a) Selecting proper piping b) Measuring, cutting and threading pipe c) Application, unions and joints d) Testing for leaks e) Venting in accordance with accepted code standards	500	_____
12.	Single Fixture Installation (commodes, bathtubs, etc.) a) Preparing position rests b) Hanging, fastening, connecting and testing	500	_____
13.	Water Heater Installation a) Checking for proper size and type of heater in accordance with job order. b) Disconnecting old heater on replacement job c) Installing and connecting new heater in conformance with accepted code standards d) Venting unit	750	_____
Total Hours		8000	_____

Apprentice: _____ **City of Apprentice Training:** _____
(please print)

Company Name: _____ **Month and Year:** _____

Supervisor's Signature: _____ **Supervisor's Name** _____
(please print)

Apprentice Progress on Job is: **Excellent** _____ **Good** _____ **Fair** _____ **Poor** _____