

PLUMBER

KIND OF WORK

Skilled, licensed plumbing work.

NATURE AND PURPOSE

Under general supervision, an employee in this class performs skilled new plumbing installation and extension, replacement, alteration, maintenance, and repair of plumbing, drainage and sewage disposal systems including, but not limited to, water distribution/supply pipes, drainage and vent pipes and building drains, fittings, hydrants, valves, and plumbing and heating fixtures and traps according to specifications in the State Plumbing Code. An employee in this class may train and direct the work of laborers, other maintenance employees, correctional facility inmates, regional center residents and other helpers. Performs related work as required.

This class differs from Plumber - Master in Charge in that each position in that class is designated as the single Master Plumber in Charge for an agency or major subdivision of an agency (e.g., DOC or DHS facility, State University campus, DOT district). Plumber is the appropriate allocation for positions requiring a Master license but which do not serve as the legal Master Plumber in Charge for the agency or facility or where work is performed in a municipality of less than 5,000 population which has not adopted the State's licensing requirements (M.S. 326.40, Subd. 1). This class differs from the Plumber Chief in that the Plumber Chief provides ongoing leadwork direction to a work group of state employees including skilled Plumbers and Plumber Fitters, as well as laborers and other maintenance employees. It differs from Plumber Supervisor because the Plumber Supervisor exercises full, supervisory authority over subordinate licensed Plumbers, labor and maintenance employees.

EXAMPLES OF WORK (A position may not include all the work examples given, nor does the list include all that may be assigned.)

Monitors and reports on the work activities of less skilled laborers, maintenance employees, correctional facility inmates and regional center residents to ensure the timely completion of projects in compliance with plumbing codes and standards by determining the most efficient work procedures and techniques; by instructing others and ensuring the appropriate use of equipment and plumbing techniques; by inspecting the quality of work performed by others and by recording hours worked and materials and equipment used.

Reviews plans, blueprints and specifications for plumbing projects to understand the scope of the project and to recommend changes by reading the plans, blueprints and specifications and discussing them with the supervisor; by researching the plans and specifications of previously completed plumbing projects; and by defining the detailed tasks of the project.

Estimates costs for time, labor and materials so that the supervisor can prioritize, budget and schedule plumbing projects by determining the supplies necessary to complete the project according to code; by selecting the best work procedures; by determining equipment and labor requirements; and by requisitioning and checking necessary parts, supplies and equipment.

Installs, repairs and maintains all water, sewage disposal and gas systems in state buildings to ensure proper water flow, waste disposal and fire protection according to State Plumbing Code; by selecting the necessary supplies and equipment for the project; by identifying the most direct and appropriate route to run the piping; by locating the area of broken pipe; by cleaning and sweating copper pipes and fittings; by cutting threads and tightening pipe and fittings; by welding pipe hangers and supports to secure all piping and connections; by installing any valves needed; by monitoring the water temperature of hot water boilers; and by following safety standards and procedures to prevent injuries.

Installs, repairs and maintains all plumbing fixtures (sinks, toilets, showers, drinking fountains, etc.) so that they are in working order to ensure sanitary conditions by selecting the necessary supplies to complete the project most efficiently and according to code; by hanging and setting fixtures to ensure proper operation; by adjusting faucets and flush valves; by unplugging toilets and removing debris from sink traps; and by replacing worn or broken parts of plumbing fixtures.

Maintains and cares for plumbing supplies and equipment to ensure their safe and efficient use for current and future plumbing projects by inspecting the physical condition of all pipe threading, bending and tightening tools; by repairing or replacing worn or broken parts on welding equipment and by ensuring an adequate supply of steel, copper, plastic piping and plumbing fixtures for immediate repair projects.

KNOWLEDGE, SKILLS AND ABILITIES REQUIRED

Knowledge of:

Construction plans, blueprints and plumbing specifications sufficient to interpret, modify and follow them to complete water, sewer and gas plumbing projects.

State Plumbing Code and standard plumbing practices, techniques, materials and tools sufficient to ensure that work and materials comply with code and to select supplies, equipment and work methods and apply them to plumbing projects.

Plumbing tools and equipment, safety standards and procedures sufficient to prevent injuries.

Shop math sufficient to estimate labor and materials costs for planned projects.

Skill in:

Using hand tools (e.g., pipe cutters, benders, threaders, wrenches) and arc and acetylene welding equipment sufficient to install, maintain and repair water, sewer and gas systems and plumbing fixtures in state buildings.

Ability to:

Maintain and repair hand tools and welding equipment sufficient to ensure their availability and safe operation for plumbing projects.

Instruct and monitor the plumbing work of less skilled employees, inmates and residents sufficient to complete projects efficiently and safely.

Maintain plumbing project records of time and materials sufficient to report daily, weekly, and monthly progress of the plumbing project.

LEGAL AND LICENSURE REQUIREMENTS

Registration with the Minnesota Department of Health as either a Journey or Master Plumber.

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08/91
11/94

T.C.:
Former Title(s):