

CAW – Sprinkler System Installer/Plumber- Certified

Revision Date:

Classification: Sprinkler System Installer/Plumber

Unit: UNIFOR

Hay Point Range: N/A

CHARACTER OF THE JOB

The Physical Plant Department is responsible for the entire physical plant at the University including construction, renovations, provision of utility services and the care and maintenance of all properties.

Under general supervision, the Sprinkler System Installer/Plumber is responsible for laying, assembling, installing, testing, maintaining, modifying, repairing and inspecting sprinkler systems and components installed in buildings for fire protection purposes. These include a variety of water, foam, carbon dioxide and dry chemical sprinkler and fire protection systems developed by many different manufacturers. The Sprinkler System Installers must ensure that the fire protection equipment is properly installed and in good working order at all times. Installers routinely perform a variety of tasks encompassing all aspects of installation, service and maintenance. They assemble, install, test, repair and maintain high pressure and low pressure pipeline systems that carry water, foam, gases, air or any other substance or material required for fire protection. They also work with wet or dry standpipes, fire hydrant systems, fire pumps and all related equipment.

This position is also responsible for the installation, replacement and repair of complete hot and cold water systems, fixtures, equipment and controls, gas lines, steam lines, distilled water lines, kitchen and laboratory equipment and related service lines and controls, drainage, condensate return and sewer systems and fire hydrants.

CHARACTERISTIC DUTIES AND RESPONSIBILITIES

- Read and interpret drawings, fire codes and specifications to determine layout requirements.
- Locate and mark the positions for connections and fixtures, then cut the required holes through walls, ceilings and floors.
- Install clamps, brackets and hangers to support piping system and sprinkler and fire protection equipment.
- Select, measure, cut, ream, then groove or thread pipe, install sprinkler heads and mount prepared pipe in supports.
- Secure pipe and piping connections by gluing, soldering, welding, fusing or clamping according to the project specifications.
- Install and connect piping systems to water mains, supply tanks, pumps, compressors and control equipment.
- Install fire department pumper connections, pressure tanks, gravity tanks and necessary fittings and accessories.

- Install fire hydrants, hose cabinets, portable fire extinguishers and associated equipment.
- Test systems for leaks using air or liquid pressure equipment.
- Prepare written cost estimates of new installations and repairs.
- Install and repair hot and cold water systems steam systems, gas lines, condensate systems and related equipment and controls.
- Install, maintain or repair hot water tanks, steam coils, chilled water coils and lines, valves, water temperature and pressure regulators, garburators and dishwashers, and back flow preventors.
- Maintain and repair fire hydrants and the entire drain and sewage systems.
- Maintain and repair bottle washers, gas furnaces, incinerators, autoclaves, steam cookers, acid waste and dilution tanks, as well as other equipment.
- Maintain records of hours worked on work orders and daily time sheets.
- Perform other related duties as assigned.
- Diagnose and locate leaks, broken or frozen pipes, plugged drains and pipes.
- Clean and thaw drains and pipes with chemicals and power steamers.
- Install gauges, thermostats, valves and fittings.
- Install, repair and maintain water softeners, garbage disposals, lawn sprinklers, dishwashers and other appliances.
- Install water closets, sinks, basins, baths, urinals and bidets.
- Install and maintain water purification, water piping and sewage disposal systems.

Skills and Abilities

- Computer literacy
- Able to perform mathematical calculations
- Must be proficient in the use of hand and power tools

QUALIFICATIONS REQUIRED

- The minimum qualifications necessary for acceptable (satisfactory) job performance are:

Level of Formal Education

- Education to an acceptable level.
- Must possess a valid Certificate of Qualification as a Sprinkler System Installer and Plumber or Steamfitter
- Class "B" Ticket for gas installation, issued by the Manitoba Department of Labour preferred.
- Must hold a valid Class 5 Manitoba Driver's License
- Knowledgeable in the following areas : types of Fire System Alarms and Devices , material and hangers, safety tools, rigging and scaffolding, steel, cast iron, brass, copper, CPVC Pipes, oxyacetylene and arc-welding, drafting and blueprints, wet and dry pipe systems, valves, fittings, pre-action and deluge systems, standpipes, hose systems and hydrants, portable extinguishers, fire pumps, gravity, tanks and reservoirs.

Experience

- At least five years of related experience after receiving journeyman's certificate.
- Ability to direct the work of helpers.
- Ability to estimate the costs of new installations and repairs.
- Ability to communicate effectively with staff, students and contractors.

Physical Requirements

- Good physical coordination as often working on scaffolds or ladders.
- Capable of performing the duties as assigned
- Must be able to work in confined areas, such as tunnels, crawlspaces, pits and shafts.
- Must be capable of working on scaffolds, swing stages and with aerial truck devices.

This class specification is intended to illustrate the characteristics of this classification level and should not be interpreted as a description of any one individual position within this classification level.

"In accordance with the University's Health and Safety Policy, and in support of the Workplace Safety and Health Act, Physical Plant is committed to providing a safe and healthy working environment for all staff and students.

Physical Plant will instruct all employees to complete an Orientation Workshop, normally during the first day on the job, and the Health and Safety Orientation Module, normally during the probation period. Employees will also be instructed to complete various workshops, such as Asbestos Awareness, etc. during the first year of employment depending upon an individual's classification."