



Plumber - Online Upgrading

A Guide to Course Content

Plumbers install, repair and maintain plumbing fixtures and systems such as water, hydronic, drain, waste and vent (DWV), low pressure steam, chemical and irrigation. They also install specialized systems such as medical gas, process piping, compressed air, water conditioners, fuel piping, sewage and water treatment, and storage and flow equipment.

Training Requirements:

All candidates applying for upgrading training must be eligible to challenge the Plumber Interprovincial Journeyman examination.

This program is designed to prepare individuals to challenge the Plumber Interprovincial Journeyman examination.

The upgrading program encompasses the scope of the trade. Completion of all assignments will aid in success.

As there is no practical component to the upgrading training program, additional study and practice is recommended in areas where individuals have minimal on-the-job experience.

Important Notes:

The courses will begin at the end of August, with the enrollment for the courses closing November 30th. This program course has an end date for the technical training year and students must complete the entire course by May 31st.

Computers used by participants for this program must meet certain minimum technical requirements. This information will be provided upon successful application to this program.

Interested candidates must contact SATCC, not Saskatchewan Polytechnic, when applying for this program.

This document briefly summarizes the training delivered in the upgrading program.

The content of the technical training components is subject to change without notice.

A - PERFORMS COMMON OCCUPATIONAL SKILLS

- **A-1 PERFORMS SAFETY-RELATED FUNCTIONS**
 - Maintains safe work environment
 - Uses personal protective equipment (PPE) and safety equipment
 - Performs lock-out and tag-out (LOTO) procedures

- **A-2 USES AND MAINTAINS TOOLS AND EQUIPMENT**
 - Uses common tools and equipment
 - Uses access equipment
 - Uses rigging, hoisting, lifting and positioning equipment
 - Rigs loads for cranes
 - Uses welding equipment
 - Uses soldering and brazing equipment

- **A-3 ORGANIZES WORK**
 - Organizes project tasks and procedures
 - Organizes materials and supplies
 - Uses documentation

- **A-4 PERFORMS ROUTINE TRADE ACTIVITIES**
 - Plans layout for piping systems
 - Calculates tube, tubing and pipe lengths
 - Installs piping supports
 - Installs piping sleeves
 - Commissions systems
 - Protects piping systems, equipment and structure from damage
 - Coordinates excavation and backfilling of trenches
 - Installs fire stopping devices and materials

- **A-5 USES COMMUNICATION AND MENTORING TECHNIQUES**
 - Uses communication techniques
 - Uses mentoring techniques

B - PREPARES AND ASSEMBLES TUBE, TUBING AND PIPE

- **B-6 PREPARES TUBE, TUBING AND PIPE**
 - Inspects tube, tubing, pipe and fittings before installation
 - Cuts tube, tubing and pipe
 - Bends tube, tubing and pipe
 - Prepares tube, tubing and pipe connections

- **B-7 JOINS TUBE, TUBING AND PIPE**
 - Joins copper tube, tubing and pipe
 - Joins plastic tube, tubing and pipe
 - Joins steel tube, tubing and pipe
 - Joins cast iron pipe
 - Joins specialized tube, tubing and pipe

C - INSTALLS, TESTS AND SERVICES SEWERS, SEWAGE TREATMENT SYSTEMS AND DRAINAGE, WASTE AND VENT (DWV) SYSTEMS

- **C-8 INSTALLS, TESTS AND SERVICES SEWERS**
 - Plans layout and sizes piping for sewers
 - Installs maintenance holes and catch basins
 - Installs piping for sewers
 - Tests maintenance holes, catch basins and piping for sewers
 - Services maintenance holes, catch basins and piping for sewers

- **C-9 INSTALLS, TESTS AND SERVICES SEWAGE TREATMENT SYSTEMS**
 - Plans installation of sewage treatment systems
 - Installs components for sewage treatment systems
 - Tests sewage treatment systems
 - Services sewage treatment systems

- **C-10 INSTALLS, TESTS AND SERVICES INTERIOR DRAINAGE, WASTE AND VENT (DWV) SYSTEMS**
 - Plans layout and sizes piping for interior drainage, waste and vent (DMV) systems
 - Installs underground piping and components for interior drainage, waste and vent (DMV) systems
 - Installs above-ground piping and components for interior drainage, waste and vent (DMV) systems
 - Tests interior drainage, waste and vent (DMV) systems
 - Services interior drainage, waste and vent (DMV) systems

D - INSTALLS, TESTS AND SERVICES WATER SERVICE AND DISTRIBUTION

- **D-11 INSTALLS, TESTS AND SERVICES WATER SERVICES**
 - Plans layout and sizes components for water service
 - Installs piping for water service
 - Installs components for water service
 - Tests water service piping and components
 - Services water service piping and components

- **D-12 INSTALLS, TESTS AND SERVICES POTABLE WATER DISTRIBUTION SYSTEMS**
 - Plans layout and sizes piping and components for potable water distribution systems
 - Installs piping for potable water distribution systems
 - Installs components for potable water distribution systems
 - Installs cross connection controls
 - Tests potable water distribution systems
 - Services potable water distribution systems

- **D-13 INSTALLS, TESTS AND SERVICES PRIVATE WATER PRESSURE SYSTEMS**
 - Plans layout and sizes piping and components for private water pressure systems
 - Installs piping for private water pressure systems
 - Installs components for private water pressure systems
 - Tests private water pressure systems
 - Services private water pressure systems

E - INSTALLS, TESTS AND SERVICES FIXTURES, APPLIANCES AND WATER TREATMENT SYSTEMS

- **E-14 INSTALLS, TESTS AND SERVICES PLUMBING FIXTURES AND APPLIANCES**
 - Installs fixture supports
 - Installs plumbing fixtures and appliances
 - Tests plumbing fixtures and appliances
 - Services plumbing fixtures and appliances

- **E-15 INSTALLS, TESTS AND SERVICES WATER TREATMENT SYSTEMS**
 - Sizes water treatment systems
 - Installs water treatment systems
 - Tests water treatment systems
 - Services water treatment systems

F - INSTALLS, TESTS, AND SERVICES LOW PRESSURE STEAM AND HYDRONIC SYSTEMS

- **F-16 INSTALLS, TESTS AND SERVICES LOW-PRESSURE STEAM SYSTEMS**
 - Plans layout and sizes piping components for low-pressure steam systems
 - Installs piping and components for low-pressure steam systems
 - Tests low-pressure steam systems
 - Services low-pressure steam systems

- **F-17 INSTALLS, TESTS AND SERVICES PIPING AND COMPONENTS FOR HYDRONIC SYSTEMS**
 - Plans layout and sizes piping and components for hydronic systems
 - Installs piping and components for hydronic systems
 - Tests hydronic systems
 - Services hydronic system

- **F-18 INSTALLS, TESTS AND SERVICES HYDRONIC HEATING AND COOLING EQUIPMENT**
 - Installs hydronic heating equipment
 - Installs hydronic cooling equipment
 - Tests hydronic heating and cooling equipment
 - Services hydronic heating and cooling equipment

G – INSTALLS, TESTS AND SERVICES SPECIALIZED SYSTEMS

- **G-19 INSTALLS, TESTS AND SERVICES PROCESS PIPING SYSTEMS**
 - Plans layout and sizes piping and components for process piping systems
 - Installs piping for process piping systems
 - Installs components for process piping systems
 - Tests process piping systems
 - Services process piping systems

- **G-20 INSTALLS, TESTS AND SERVICES POTABLE WATER FIRE PROTECTION SYSTEMS (NOT COMMON CORE)**
 - **Task is not common core.** It is not evaluated on the Red Seal examination, and it is outside the scope of work for a Plumber in Saskatchewan. Content added from RSOS for reference purposes only.

- **G-21 INSTALLS, TESTS AND SERVICES OTHER SPECIALIZED SYSTEMS**
 - Plans layout and sizes piping, components and equipment for other specialized systems
 - Installs piping and components for other specialized systems
 - Installs equipment for other specialized systems
 - Tests other specialized systems
 - Services other specialized systems

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