Plumbing DIPLOMA

Program Overview
The Plumbing program trains apprentices in commercial, residential and industrial plumbing. Plumbers install and maintain the water, waste disposal, soil and vent, drainage and gas systems in homes and in commercial and industrial buildings. Plumbers also install faucets, bathtubs, sinks and toilets, and such appliances as dishwashers and water heaters. Plumbers often work from blueprints and specifications and are knowledgeable about building and plumbing codes which govern installations.

Applicants must be high school graduates or equivalent. High school courses in mathematics, science, mechanical drawing and wood or metal shop will be helpful.

Career Opportunities
According to the U.S. Department of Labor, employment of plumbers is expected to grow as fast as the average for all occupations.

Before becoming a journeyperson plumber, the apprentice must pass the Minnesota State Plumbing Examination. Licensing is by the State Board of Health.

Program Outcomes
1. Graduates will demonstrate safe and proper use of tools used in the plumbing field.
2. Graduates will have knowledge and skills to install piping in commercial, residential and industrial buildings.
3. Graduates will demonstrate knowledge in blueprint reading.
4. Graduates will demonstrate knowledge in code and proper installation practices.
5. Graduates will demonstrate science and math skills needed in the plumbing field.

Transfer Opportunities
Saint Paul College has a transfer articulation agreement between the following program and post-secondary institution for the baccalaureate degree program listed below.

For more information please go to saintpaul.edu/Transfer.

Plumbing Diploma
BS Operations Management
Minnesota State University, Moorhead

Program Faculty
Adjunct faculty members, who are experienced in plumbing and represent private practice, local government, and industry sectors.

Program Requirements
☐ Check off when completed
Certain classes must be taken concurrently and certain classes are prerequisites to other classes.

Course
PLMB 2610 Pre-Apprentice Plumbing ............. 2
PLMB 2612 Job Safety & Health .................. 2
PLMB 2614 Applied Math for Plumbing .......... 4
PLMB 2616 Plumbing Welding .................... 4
PLMB 2618 Basic Drawing ......................... 4
PLMB 2621 Plumbing 1 .......................... 4
PLMB 2622 Plumbing 2 .......................... 4
PLMB 2623 Plumbing 3 Gas Installations and Gas Controls OR
PLMB 2650 Industrial Plumbing ................ 4
PLMB 2624 Plumbing 4 Commercial and Residential Service ......................... 4
PLMB 2640 Advanced Plan Reading and Heavy Rigging ......................... 4
PLMB 2631 Plumbing Code 1 ..................... 2
PLMB 2632 Plumbing Code 2 ..................... 2
PLMB 2633 Plumbing Code 3 ..................... 2
PLMB 2634 Plumbing Code 4 ..................... 2

Total Program Credits ...................... 44

Program Start Dates
This part-time, evening program starts each April. Please check with Rick Gale, Program Coordinator, at 651.846.1389 for information on application deadlines for this program.

Restricted Enrollment
The Plumbing Diploma program is a restricted enrollment program offered through the Plumbers and Gasfitters Local 34 and Saint Paul College. Admission to the Plumbing Apprenticeship program is required for enrollment in this diploma program. Those enrolled in the Plumbing Diploma program are subject to the St. Paul Plumbers & Gasfitters Apprenticeship Standards, as well as the Saint Paul College Student Code of Conduct and Academic Integrity Policy. Violations of these standards or policies may result in removal from both the apprenticeship program and the plumbing diploma classes. Concurrent enrollment in both the apprenticeship program and plumbing classes is required.

Contact Rick Gale at 651.846.1389 for application information.

Course Sequence

Spring Semester
Students must complete the Pre-Apprenticeship classes (PLMB 2610 and PLMB 2612) prior to work eligibility.

PLMB 2610 Pre-Apprentice Plumbing ............. 2
PLMB 2612 Job Safety and Health .................. 2
1st Year Apprentice
PLMB 2614 Applied Math for Plumbers .......... 4
2nd Year Apprentice
PLMB 2622 Plumbing 2 .......................... 4
3rd Year Apprentice
PLMB 2623 Plumbing 3 Gas Installations and Gas Controls OR
PLMB 2650 Industrial Plumbing ................ 4
4th Year Apprentice
PLMB 2640 Advanced Plan Reading and Heavy Rigging ......................... 4
5th Year Apprentice
PLMB 2633 Plumbing Code 3 ..................... 2
PLMB 2634 Plumbing Code 4 ..................... 2

Fall Semester
1st Year Apprentice
PLMB 2621 Plumbing 1 .......................... 4
2nd Year Apprentice
PLMB 2616 Plumbing Welding .................... 4
3rd Year Apprentice
PLMB 2624 Plumbing 4 Commercial and Residential Service ......................... 4
4th Year Apprentice
PLMB 2618 Basic Drawing ......................... 4
5th Year Apprentice
PLMB 2631 Plumbing Code 1 ..................... 2
PLMB 2632 Plumbing Code 2 ..................... 2

Total Program Credits ...................... 44

Minimum Program Entry Requirements
Students entering this program must meet the following minimum program entry requirements:

Reading: Score of 248+
Writing: Any
Arithmetic: Score of 250+
Spatial assessment required: Score 50+
Assessment Results and Prerequisites:
Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

Information is subject to change. This Program Requirements Guide is not a contract.