

# 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.

Upon completion of the program, the graduate may enter into a five-year apprenticeship program that involves on-the-job training and 180 hours of related training each year. Before becoming a journeyman 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 [www.saintpaul.edu/Transfer](http://www.saintpaul.edu/Transfer).

### Plumbing Diploma

BS Operations Management  
Minnesota State University-Moorhead

## Program Start Dates

This part-time, evening program starts each spring. Please check with Rick Gale, Program Coordinator, at 651.846.1641 for information on application deadlines for this program.

## Program Faculty

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

## 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.

## Program Requirements

Check off when completed

Certain classes must be taken concurrently and certain classes are prerequisites to other classes.

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

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

## 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 2618 Basic Drawing	4
-------------------------	---

#### 4th Year Apprentice

PLMB 2623 Plumbing 3 Gas Installations and Gas Controls OR	
PLMB 2650 Industrial Plumbing	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 2640 Advanced Plan Reading and Heavy Rigging	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 74+

**Writing:** Any

**Arithmetic:** Score of 49+

**Spatial assessment required:** Score of 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.

097D (7036)

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