

## Pipefitting DIPLOMA

### Program Overview

Pipefitters install, maintain, and repair high and low pressure steam systems, high and low pressure hot water systems, snow melting systems, refrigeration systems, heating, gas and oil piping, pneumatic, electronic controls, air conditioning and also provide instrumentation and valve repair. These skills are used working in residential, commercial, and industrial installations. These systems are installed in all types of weather conditions.

Applicants must be high school graduates or the equivalent and should enjoy working in a demanding trade that requires both mental alertness and physical stamina. Pipefitters do heavy lifting and are required to work both indoors and outside, often times in confined spaces.

### Career Opportunities

Pipefitters, Steamfitters, and HVACR Technicians work in all aspects of the heating, air conditioning, refrigeration, and temperature control fields. They are also employed at oil refineries, chemical plants, food processing facilities, manufacturing plants, retail and wholesale food stores, and ice rinks. Maintenance pipefitters work in a variety of environments such as universities, schools, government agencies and utility companies.

### Program Outcomes

1. Apply math and science skills to designing and operating process piping systems.
2. Install, maintain, and repair heating and cooling systems under supervision of a licensed pipefitter.
3. Install and repair process piping systems under supervision of a licensed pipefitter.

### Program Faculty

Wyatt Carlson  
wyatt.carlson@saintpaul.edu

### Student supplies and tools costs

Text rental \$100.00

PPE-Tools estimated at \$150.00

All classes must be completed with a grade of "C" or better.

### Program Requirements

Check off when completed

Course	Cr
<input type="checkbox"/> PIPE 1410 Pipe Science/Math	5
<input type="checkbox"/> PIPE 1451 Pipe Shop 1	4
<input type="checkbox"/> PIPE 1452 Pipe Shop 2	4
<input type="checkbox"/> PIPE 1540 Electric Controls	3
<input type="checkbox"/> PIPE 1550 Basic Gas	3
<input type="checkbox"/> PIPE 1555 Basic Electricity	2
<input type="checkbox"/> PIPE 1560 Basic Refrigeration	4
<input type="checkbox"/> PIPE 1565 Heating and Cooling 1	4
<input type="checkbox"/> PIPE 1570 Heating and Cooling 2	4
<input type="checkbox"/> PIPE 1575 Pipe Blueprint Reading	2
<input type="checkbox"/> PIPE 1580 Pipe Welding 1	3
<input type="checkbox"/> PIPE 1585 Pipe Welding 2	2

**Total Program Credits . . . . .40**

### Restricted Enrollment

The Pipefitting Diploma is a restricted enrollment joint program offered through the St. Paul Pipefitters Local 455 and Saint Paul College. Admission to the Pipefitters Apprenticeship program is required for enrollment in this program.

Contact Wyatt Carlson at wyatt.carlson@saintpaul.edu for application information.

### Program Start Dates

Fall

### Course Sequence

The following sequence is required.  
This program begins fall semester.

#### First Semester

PIPE 1410 Pipe Science/Math	5
PIPE 1451 Pipe Shop 1	4
PIPE 1555 Basic Electricity	2
PIPE 1565 Heating and Cooling 1	4
PIPE 1575 Pipe Blueprint Reading	2
PIPE 1580 Pipe Welding 1	3
<b>Total Semester Credits</b>	<b>20</b>

#### Second Semester

PIPE 1452 Pipe Shop 2	4
PIPE 1560 Basic Refrigeration	4
PIPE 1540 Electric Controls	3
PIPE 1550 Basic Gas	3
PIPE 1570 Heating and Cooling 2	4
PIPE 1585 Pipe Welding 2	2
<b>Total Semester Credits</b>	<b>20</b>

**Total Program Credits . . . . .40**

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

### Minimum Program Entry Requirements

Students entering this program must meet the following minimum program entry requirements:

**Reading:** Score of 248+

**Arithmetic:** Score of 250+

### Assessment Results and Prerequisites:

Students must maintain a GPA of 2.5 to continue in the program.

Students are accepted through St. Paul Pipefitters Local 455 JAC; 651.846.1699 or www.local455jatc.com.

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