Steamfitter Pipefitter

SCHOOL OF CONSTRUCTION

Overview

Learn to layout, assemble, maintain and repair piping systems which carry water, steam, chemicals or fuel used in heating, cooling, lubricating and other processes.

As a steamfitter-pipefitter, you'll:

- install a typical piping system in a commercial building or industrial plant
- study blueprints, drawings or specifications to determine the type of pipe and tools to use
- make detailed sketches for pipe and equipment fabrication and installation
- measure, cut, thread, groove, bend, assemble and install metal, plastic and fibreglass pipes, valves and fittings
- join pipe sections and related equipment to secure them into position
- use testing equipment to check systems for leaks.

You may also remove and replace worn components, do general maintenance work and work on plant shut-downs.

Certification is required to work in this trade. This means you must either be a registered apprentice working under the guidance of a certified journeyperson or you must be a journeyperson yourself.

Traits, skills and aptitudes

Steamfitter pipefitters are skilled tradespeople who like working with their hands on physically demanding tasks.

This line of work is most fulfilling for those who enjoy working independently.

To succeed in this trade, you should:

- enjoy problem-solving
- be a creative thinker
- be able to visualize and execute complex instructions
- enjoy working in physically active environments
- have mechanical ability and manual dexterity
- be able to accurately estimate and measure sizes and lengths
- be comfortable working independently
- be committed to maintaining safe working conditions.

Credentials

Upon successfully completing the required working hours and technical training periods, you'll be awarded an advanced diploma and journeyperson status by Alberta's Apprenticeship and Industry Training.

This is a Red Seal Endorsed trade – a recognizable standard that allows tradespeople to work across Canada.

Admission requirements

To enter an apprenticeship, you must have the educational qualifications required or recommended education for the trade to which you apply.

Entrance requirements are monitored and set by Alberta Apprenticeship and Industry Training.

Minimum requirements

Successful completion of the following courses:

- English 20-2
- Math 20-3
- Science 10

OR

A pass mark in all five Canadian General Educational Development (GED) or Canadian Adult Education Credential (CAEC) tests

OR

Alberta Apprenticeship and Industry Training Entrance exam.

Recommended requirements

Apprentices with an Alberta High School Diploma that includes the following courses:

- English 30-2
- Math 30-3
- Physics 30 OR Chemistry 30 OR Science 30
- Related career and technology studies (CTS) courses

Costs

2026/27 tuition and fees

The following costs are effective as of July 1, 2026.

Period	Number of weeks	Tuition fees	Additional fees	Total
1	8	$1,256	$357.50	$1,613.50
2	8	$1,256	$357.50	$1,613.50
3	8	$1,256	$357.50	$1,613.50
4	8	$1,256	$357.50	$1,613.50
			Total cost:	**$6,454**

The estimated total cost of tuition and fees in each period of technical training.

Books and Supplies

This is a bring-your-own-device program with standard computer hardware and software requirements. See the specific requirements on our computers and laptops page.

Books or modules, along with other items for classes, are approximately $600 per period.

We recommend you don't purchase books or modules ahead of time as they might be outdated by the time you attend classes, and they cannot be returned to the Bookstore.

This program requires personal protective equipment (PPE), which may be an additional cost.