



# Gasfitter

SCHOOL OF CONSTRUCTION

## Overview

Learn to size, install, test, adjust and service natural gas and propane equipment ranging from residential furnaces to industrial boilers.

If you like to work independently with your hands and enjoy diagnosing problems, you'll enjoy a career as a gasfitter. You'll repair and extend gas mains and install, repair and service pipes and fittings between mains and buildings.

Following codes, regulations and accepted safety practices, you will:

- determine the size and type of pipe, equipment, appliances and devices to use
- test, identify and select the correct piping and related materials
- measure, cut, thread and assemble pipe using tools such as pipe cutters, pipe threading machines and pipe vices
- install vents and flues, and connect gas-consuming appliances such as ranges, dryers barbecues, furnaces, boilers, space heaters, radiant and forced air heaters
- test and replace defective equipment or components
- start-up and adjust new or repaired equipment
- prepare reports

As a gasfitter, you may also install and repair underground gas mains and distribution pipes, respond to calls about escaping gas, assist in the investigation of gas fires and explosions, convert motor vehicles or appliances to use other fuels (e.g. propane or natural gas) and install and service propane and natural gas filling stations.

## Traits, skills and aptitudes

Gasfitters are skilled tradespeople who are self-motivated and independent. This line of work is most fulfilling for those who enjoy diagnosing problems and working with their hands.

To thrive in this career, it is important to have the following traits:

- creative problem solvers who enjoy diagnosing issues
- good math and science skills
- good coordination and manual dexterity
- comfortable working at heights
- strength, stamina, and ability to use proper lifting techniques to handle items weighing over 25 kilograms
- good vision
- ability to work well as part of a team and communicate effectively with ground crews using hand signals and voice communication
- strong commitment to safety and safe work habits

To work in this trade, certification is required. This means that you must either be a registered apprentice who is working under the guidance of a certified journeyman, or you must be a certified journeyman yourself.

## Credentials

Upon successfully completing the required working hours and apprenticeship education periods, graduates will be awarded a diploma (Gasfitter - Class A) or a certificate (Gasfitter - Class B) in addition to journeyman 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) 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

### 2023/24 tuition and fees

The following costs are effective as of July 1, 2023.

#### Gasfitter class A

Period	Number of weeks	Tuition fees	Additional fees	Total
1	8	\$1,152	\$329	\$1,481
2	8	\$1,152	\$329	\$1,481
3	8	\$1,152	\$329	\$1,481
Total cost:				\$4,443

The estimated total cost of 2024/25 tuition and fees in each period of technical training.

#### Gasfitter class B

Period	Number of weeks	Tuition fees	Additional fees	Total
1	8	\$1,152	\$329	\$1,481
2	8	\$1,152	\$329	\$1,481
Total cost:				\$2,962

The estimated total cost of 2024/25 tuition and fees in each period of technical training.

## Books and Supplies

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

It's recommended 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.

Personal protective equipment (PPE) will be required for the program, which may be an additional cost to apprentices.

## 2023/24 tuition and fees

The following costs are effective as of July 1, 2023.

Period	Number of weeks	Tuition fees	Additional fees	Total
1	8	\$1,056	\$319	\$1,375
2	8	\$1,056	\$319	\$1,375
3	8	\$1,056	\$319	\$1,375
<b>Total cost:</b>				<b>\$4,125</b>

The estimated total cost of 2023/24 tuition and fees in each period of technical training.