



## **GASFITTER – CLASS B**

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### **Occupation Description**

Gasfitters – Class B design, install, test, adjust, maintain and repair lines, appliances, equipment and accessories in various sectors. Fuels may include natural gas, manufactured gas, liquefied petroleum gas, digester gas, landfill gas, biogas or a mixture or dilution of any of these gases and Hydrogen. Appliances and equipment include those that do not exceed 400 000 Btuh (British Thermal Units per hour) or 120 kW (kilowatts) such as boilers, burners, makeup air units, furnaces, process burners, and various other gas-fired equipment.

For detailed information on the scope of knowledge and the skills taught and assessed in this program refer to the Program Outline available on the SkilledTradesBC website.

### **Pathways to Certification**

In BC, an individual can become certified as a Gasfitter – Class B by completing the Gasfitter – Class B program or by challenging the certification. Apprenticeship programs are for individuals who have an employer to sponsor them and challenge programs are for individuals who have extensive experience working in the occupation and wish to challenge the certification.

Youth can begin apprenticeship in high school through either the Youth Train in Trades or Youth Work in Trades programs. The Youth Work in Trades program is available for any trade if an employer is willing to sponsor the student. Trades offered through the Youth Train in Trades vary by region; contact your local school district to find out which technical training programs are being offered through the Youth Train in Trades program in your region.

**Note:** To work in this trade in BC, it is also necessary to pass the relevant Technical Safety BC (TSBC) Gasfitter – Class B certification exam to achieve the TSBC Gasfitter - Class B Certificate of Qualification or “license.” For more information, please visit the [TSBC website](#).

### **Recommended Education**

The following education is **recommended** for apprentices entering this occupation. These are not prerequisites, but rather a desired level of skill or knowledge that will contribute to success in the industry.

- Grade 12 diploma including:
  - English 12
  - Math 11 (Applications of Math 11 or Principles of Math 11), and
  - Physics 11

Due to the high level of skill required in Math and Physics for the Gasfitter – Class B program, industry and instructors **strongly advise apprentices to upgrade their Math and Physics skills** prior to registration for technical training in this program.

### **SkilledTradesBC Registration**

Individuals who wish to begin an apprenticeship in this program must register with SkilledTradesBC along with their sponsor. Application forms for all programs are available from the SkilledTradesBC website. Online registration is also available for most programs through the SkilledTradesBC website.

### **Skilled Trades Certification**

Trade workers in a trade designated as Skilled Trades Certification (STC) are required to hold certification in the trade, be registered as an apprentice, or have an approved Temporary Authorization. More information can be found at [www.skilledtradesbc.ca](http://www.skilledtradesbc.ca).

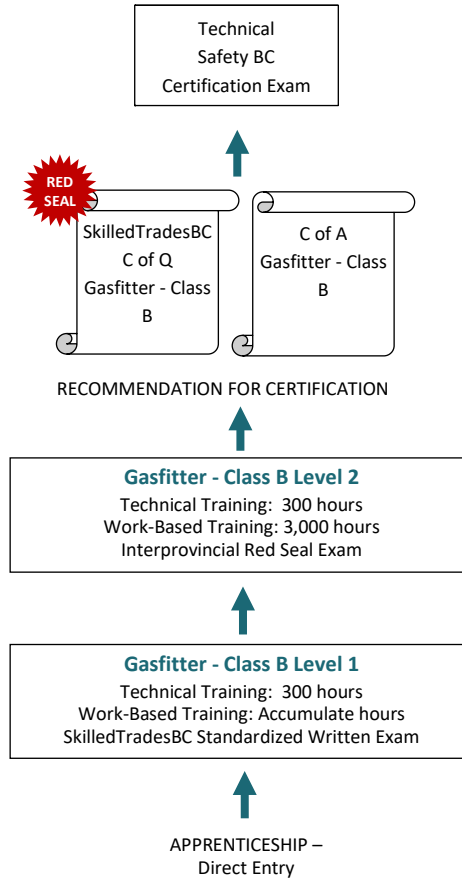


**Apprenticeship Pathway**

This graphic provides an overview of the Gasfitter – Class B apprenticeship pathway.

**Gasfitter – Class B**

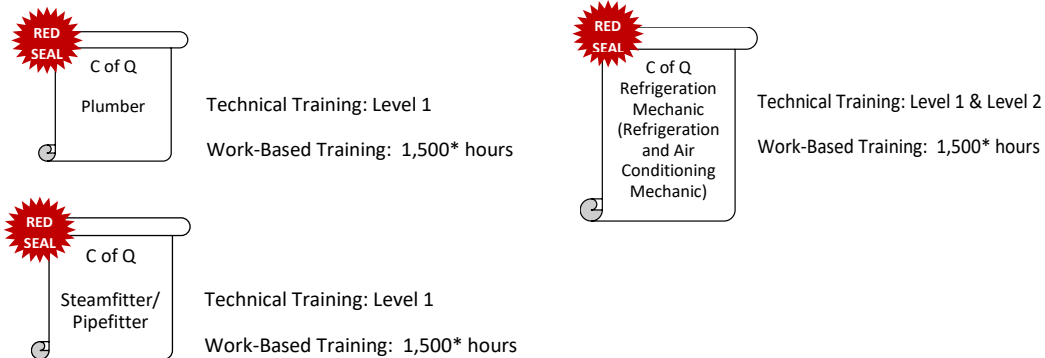
C of Q = Certificate of Qualification  
C of A = Certificate of Apprenticeship



*\*Suggested duration based on 30-hour week*

**CROSS-PROGRAM CREDITS**

*Individuals who hold the credentials listed below are entitled to receive partial credit toward the completion requirements of this program*



*\*Individuals who are holders of more than one of these credentials will only be awarded credit for 1,500 hours total*



**Apprenticeship Program Standards**

**Credentials Awarded**

- Gasfitter – Class B – SkilledTradesBC Certificate of Qualification with Red Seal endorsement
- Gasfitter – Class B – Certificate of Apprenticeship

**SkilledTradesBC  
Registration Prerequisites**

- Agreement signed by the employer to sponsor the apprentice

**Completion Requirements**

The Certificate of Qualification with Red Seal Endorsement for Gasfitter – Class B is awarded upon successful completion of:

<b>Requirement</b>	<b>Level of Achievement Required</b>
Technical Training	Minimum 70% in each level of technical training: <ul style="list-style-type: none"> <li>▪ Level 1: 300 hours and SkilledTradesBC standardized written exam</li> <li>▪ Level 2: 300 hours</li> </ul>
Interprovincial Red Seal Exam	<ul style="list-style-type: none"> <li>▪ Minimum 70%</li> </ul>
Work-Based Training	<ul style="list-style-type: none"> <li>▪ 3,000 hours</li> </ul>
Recommendation for Certification	<ul style="list-style-type: none"> <li>▪ Recommendation for certification signed by the Sponsor and an individual holding credentials eligible for sign-off authority</li> </ul>

**Program Duration**

Duration varies depending on how training is delivered, but the program generally takes 2 years to complete.

The technical training requirement is typically met through block-release training (full-time, at school) delivered by a SkilledTradesBC approved training provider. It can also be met through approved alternative training models (e.g., distance education, online, and/or part-time) where these options are available and approved by Technical Safety BC.

**Sign-off Authority**

Credentials eligible to sign-off on the Recommendation for Certification:

- Gasfitter – Class A – Technical Safety (formerly BCSA) Certificate of Qualification (license)
- Gasfitter – Class B – Certificate of Qualification – Technical Safety BC Gas Class B Certification (non SkilledTradesBC)
- Domestic/Commercial Gasfitter B – Certificate of Qualification – Technical Safety BC Gas Class B license (non SkilledTradesBC)
- Gasfitter – Class A – SkilledTradesBC Certificate of Qualification
- Gasfitter – Class A – Interprovincial Red Seal Endorsement
  
- Gasfitter – Class B – SkilledTradesBC Certificate of Qualification
- Gasfitter – Class B – Interprovincial Red Seal Endorsement
- Uncertified Experienced Worker with a valid and active Temporary Authorization issued from SkilledTradesBC



**Apprenticeship Program Standards**

**Challenging a Level**

The following levels of technical training can be challenged for advanced placement in this program:

**Level**

- Level 1

**Skilled Trades Certification Supervision Ratio** The ratio of apprentice to journeyperson is 2:1.

**Cross-Program Credits**

Individuals who hold the credentials listed below are entitled to receive partial credit toward the completion requirements of this program:

Credential	Credit(s) Granted
<ul style="list-style-type: none"> <li>▪ Plumber - Certificate of Qualification with Red Seal Endorsement</li> </ul>	<ul style="list-style-type: none"> <li>▪ Level 1 Technical Training Work-Based Training: 1,500* hours</li> </ul>
<ul style="list-style-type: none"> <li>▪ Steamfitter/Pipefitter - Certificate of Qualification with Red Seal Endorsement</li> </ul>	<ul style="list-style-type: none"> <li>▪ Level 1 Technical Training Work-Based Training: 1,500* hours</li> </ul>
<ul style="list-style-type: none"> <li>▪ Refrigeration and Air-Conditioning Mechanic Certificate of Qualification with Red Seal Endorsement</li> </ul>	<ul style="list-style-type: none"> <li>▪ Level 1 &amp; 2 Technical Training Work-Based Training: 1,500* hours</li> </ul>

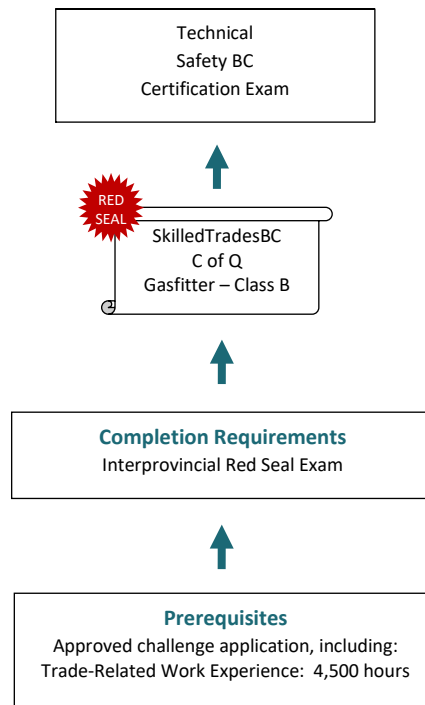
\*Individuals who are holders of more than one of these credentials will only be awarded credit for 1,500 hours total



## Challenge Pathway

This graphic provides an overview of the Gasfitter – Class B challenge pathway.

*C of Q = Certificate of Qualification*



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### CREDIT FOR PRIOR LEARNING

*Individuals who hold the credentials listed below are entitled to receive partial credit toward the completion requirements of this program:*

- None



**Challenge Program Standards**

**Credentials Awarded** Gasfitter – Class B – SkilledTradesBC Certificate of Qualification with Interprovincial Red Seal endorsement

**SkilledTradesBC Registration Prerequisites** An approved Challenge Application, which includes:  
 ▪ 4,500 documented hours of directly related experience working in the occupation

**Credit for Prior Learning** None

<b>Completion Requirements</b>	<b>Requirement</b>	<b>Level of Achievement Required</b>
	Interprovincial Red Seal Exam	▪ Minimum 70%



## Supporting Documents

Gasfitter - Class B Program Outline (2017) – Defines the full scope of knowledge and skills required to competently perform the occupation in BC. Available from the SkilledTradesBC website.

Gasfitter – Class B National Occupational Analysis (2014) – Prepared by industry experts, under the guidance of the federal government, for Red Seal trades to define the national standard of competence for the trade. Available from the Red Seal website: [www.red-seal.ca](http://www.red-seal.ca).

## Contacts

SkilledTradesBC manages B.C.'s industry training and apprenticeship programs. Contact SkilledTradesBC Customer service if you have any questions regarding registration, examinations or certification for this program.

Telephone:	778-328-8700	Fax:	778-328-8701
Toll Free (within BC):	1-866-660-6011	Email:	<a href="mailto:customerservice@skilledtradesbc.ca">customerservice@skilledtradesbc.ca</a>
Website:	<a href="http://www.skilledtradesbc.ca">www.skilledtradesbc.ca</a>		

## Revision History

The standards for this program were reviewed and/or updated on the dates below.

Program Standards Approved:	February 2010
Updated:	March 2010
	October 2018
	October 2020
	November 2023

Program Profiles are updated regularly. Visit [www.skilledtradesbc.ca](http://www.skilledtradesbc.ca) for the most current version.