

## **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 skills taught and assessed in this program refer to the Program Outline, available on the SkilledTradesBC website.

### **Pathway 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: SkilledTradesBC is responsible for administering the apprenticeship for Gasfitter – Class B. Technical Safety BC is responsible for regulating the Gasfitter – Class B Certificate of Qualification examination. Please refer to the Technical Safety BC website – <https://www.technicalafetybc.ca/> for information on the Certificate of Qualification examination requirements.

### **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 or equivalent 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 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 sponsors. Application forms for all programs are available from the SkilledTradesBC website. Online registration is also available for most programs through the SkilledTradesBC website.

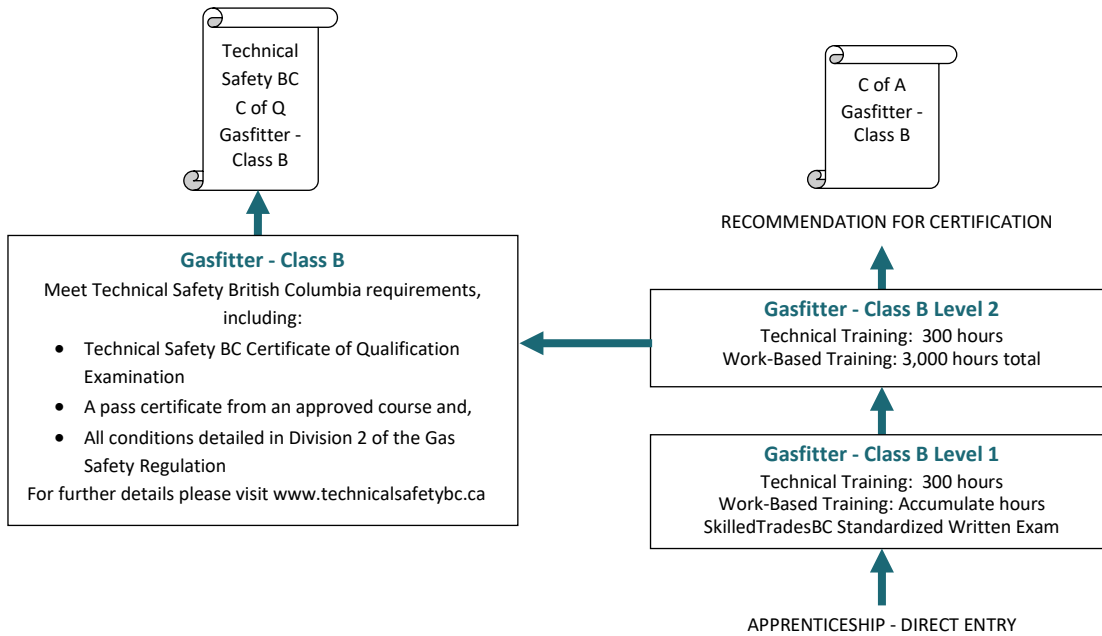
**Skilled Trades Certification**

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**

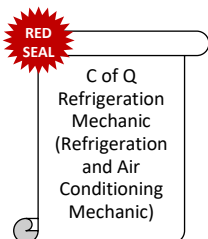
This graphic provides an overview of the Gasfitter – Class B apprenticeship pathway.

*C of Q = Certificate of Qualification  
C of A = Certificate of Apprenticeship  
WBT = Work-Based Training*

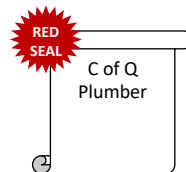


**CROSS-PROGRAM CREDITS**

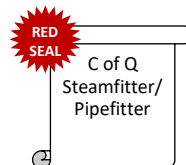
*Individuals who hold the credentials listed below are entitled to receive partial credit toward the completion requirements of this program*



Technical Training: Level 1 & Level 2  
Work-Based Training: 1,500\* hours



Technical Training: Level 1  
Work-Based Training: 1,500\* hours



Technical Training: Level 1  
Work-Based Training: 1,500\* hours

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

**Apprenticeship Program Standards**

<b>Credentials Awarded</b>	<ul style="list-style-type: none"> <li>Gasfitter – Class B – Certificate of Apprenticeship</li> </ul>								
<b>SkilledTradesBC Registration Prerequisites</b>	<ul style="list-style-type: none"> <li>Agreement signed by the employer to sponsor the apprentice</li> </ul>								
<b>Completion Requirements</b>	<p>Certification as a Gasfitter Class – B is awarded upon successful completion of:</p> <table border="1"> <thead> <tr> <th>Requirement</th> <th>Level of Achievement Required</th> </tr> </thead> <tbody> <tr> <td>Technical Training</td> <td>                     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> </td> </tr> <tr> <td>Work-Based Training</td> <td> <ul style="list-style-type: none"> <li>3,000 hours</li> </ul> </td> </tr> <tr> <td>Recommendation for Certification</td> <td> <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> </td> </tr> </tbody> </table>	Requirement	Level of Achievement Required	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>	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>
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<b>Program Duration</b>	<p>Duration varies depending on how training is delivered, but the program generally takes 2 years to complete.</p> <p>The technical training requirement is typically met through block-release training (full-time, at school) delivered by a SkilledTradesBC and Technical Safety BC 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.</p>								
<b>Sign-off Authority</b>	<p>Credentials eligible to sign-off on the Recommendation for Certification:</p> <ul style="list-style-type: none"> <li>Gasfitter – Class B – Certificate of Qualification – Technical Safety BC Gas Class B Certification (Non-SkilledTradesBC)</li> <li>Domestic/Commercial Gasfitter B – Certificate of Qualification – Technical Safety BC Gas License (Non-SkilledTradesBC)</li> <li>Gas Fitter – Class A Certificate of Qualification - Technical Safety BC Class A Certification (Non-SkilledTradesBC)</li> </ul>								
<b>Challenging a Level</b>	<p>The following levels of technical training can be challenged for advance placement in this program:</p> <p><b>Level</b></p> <ul style="list-style-type: none"> <li>None</li> </ul>								
<b>Skilled Trades Certification Supervision Ratio</b>	<p>The ratio of apprentice to journeyperson is 2:1.</p>								

**Apprenticeship Program Standards**

**Cross-Program Credits**

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

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

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

**Challenge Pathway**

Refer to the Technical Safety BC website – <https://www.technicalsaftybc.ca/> for information on the requirements for the completion of the Certificate of Qualification for Gasfitter – Class B.

**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.

**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
Updated:	January 2018
Updated:	December 2018

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