

GASFITTER – CLASS A

Occupation Description

Gasfitters – Class A 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 and fuel oils. Appliances and equipment include those exceeding 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 ITA website.

Pathways to Certification

In BC, an individual can become certified as a Gasfitter – Class A by completing the Gasfitter - Class A program or by challenging the Red Seal 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.

Note: ITA is responsible for administering the apprenticeship for Gasfitter – Class A Certificate of Qualification and Red Seal Endorsement. Technical Safety BC is responsible for regulating the Gasfitter – Class A Certificate of Qualification (license). Please refer to the Technical Safety BC web site – <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 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 A program, industry and instructors **strongly advise apprentices to upgrade their Math and Physics skills** prior to registration for technical training in this program.

ITA Registration

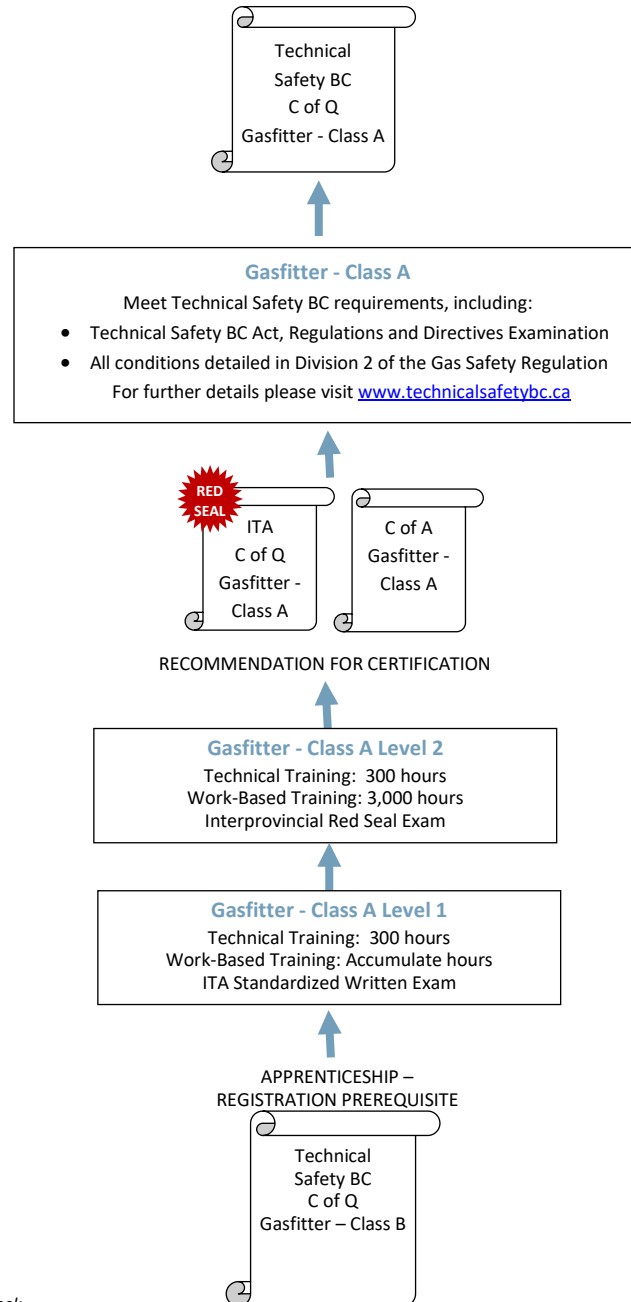
Individuals who wish to begin an apprenticeship in this program must register with ITA along with their sponsor. Application forms for all programs are available from the ITA website. Online registration is also available for most programs through the ITA website.

Apprenticeship Pathway

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

Gasfitter – Class A

ITA = Industry Training Authority
C of Q = Certificate of Qualification
C of A = Certificate of Apprenticeship
Technical Safety BC, C of Q = License
WBT = Work-Based Training



*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

None

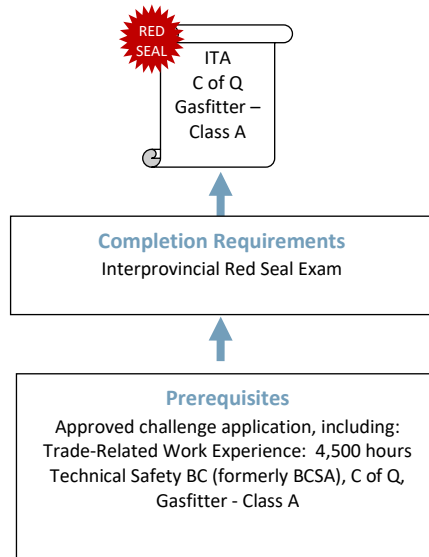
Apprenticeship Program Standards

Credentials Awarded	<ul style="list-style-type: none"> ▪ Gasfitter – Class A – ITA Certificate of Qualification with Red Seal endorsement ▪ Gasfitter – Class A – Certificate of Apprenticeship 										
ITA Registration Prerequisites	<ul style="list-style-type: none"> ▪ Agreement signed by the employer to sponsor the apprentice ▪ Technical Safety BC (formerly BCSA) Gasfitter – Class B Certificate of Qualification (license) 										
Completion Requirements	<p>The Certificate of Qualification with Red Seal Endorsement for Gasfitter – Class A is awarded upon successful completion of:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Requirement</th> <th style="width: 50%;">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"> ▪ Level 1: 300 hours and ITA standardized written exam ▪ Level 2: 300 hours </td> </tr> <tr> <td>Interprovincial Red Seal Exam</td> <td> <ul style="list-style-type: none"> ▪ Minimum 70% </td> </tr> <tr> <td>Work-Based Training</td> <td> <ul style="list-style-type: none"> ▪ 3,000 hours </td> </tr> <tr> <td>Recommendation for Certification</td> <td> <ul style="list-style-type: none"> ▪ Recommendation for certification signed by the Sponsor and an individual holding credentials eligible for sign-off authority </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"> ▪ Level 1: 300 hours and ITA standardized written exam ▪ Level 2: 300 hours 	Interprovincial Red Seal Exam	<ul style="list-style-type: none"> ▪ Minimum 70% 	Work-Based Training	<ul style="list-style-type: none"> ▪ 3,000 hours 	Recommendation for Certification	<ul style="list-style-type: none"> ▪ Recommendation for certification signed by the Sponsor and an individual holding credentials eligible for sign-off authority
Requirement	Level of Achievement Required										
Technical Training	Minimum 70% in each level of technical training: <ul style="list-style-type: none"> ▪ Level 1: 300 hours and ITA standardized written exam ▪ Level 2: 300 hours 										
Interprovincial Red Seal Exam	<ul style="list-style-type: none"> ▪ Minimum 70% 										
Work-Based Training	<ul style="list-style-type: none"> ▪ 3,000 hours 										
Recommendation for Certification	<ul style="list-style-type: none"> ▪ Recommendation for certification signed by the Sponsor and an individual holding credentials eligible for sign-off authority 										
Program Duration	<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 an ITA 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 and approved by Technical Safety BC.</p>										
Sign-off Authority	<p>Credentials eligible to sign-off on the Recommendation for Certification:</p> <ul style="list-style-type: none"> ▪ Gasfitter – Class A – Technical Safety (formerly BCSA) Certificate of Qualification (license) 										
Challenging a Level	<p>The following levels of technical training can be challenged for advanced placement in this program</p> <p>Level</p> <ul style="list-style-type: none"> ▪ None 										
Cross-Program Credits	<p>Individuals who hold the credentials listed below are entitled to receive partial credit toward the completion requirements of this program</p> <p>Credential</p> <p>None</p>										

Challenge Pathway

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

ITA = Industry Training Authority
C of Q = Certificate of Qualification
Technical Safety BC (TSBC) C of Q = License



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 A – ITA Certificate of Qualification with Interprovincial Red Seal endorsement

ITA Registration Prerequisites An approved Challenge Application, which includes:

- 4,500 documented hours of directly related experience working in the occupation
- Technical Safety BC, (formerly BCSA) Gasfitter – Class A Certificate of Qualification (license)

Credit for Prior Learning None

Completion Requirements	Requirement	Level of Achievement Required
	Interprovincial Red Seal Exam	<ul style="list-style-type: none"> ▪ Minimum 70%



Supporting Documents

Gasfitter - Class A Program Outline (2020) – Defines the full scope of knowledge and skills required to competently perform the occupation in BC. Available from the ITA website.

Gasfitter – Class A 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.

Contacts

The **Industry Training Authority** (ITA) manages B.C.'s industry training and apprenticeship programs. Contact ITA Customer service if you have any questions regarding registration, examinations or certification for this program.

Telephone: 778-328-8700
Toll Free (within BC): 1-866-660-6011
Website: www.itabc.ca

Fax: 778-328-8701
Email: customerservice@itabc.ca

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

Program Profiles are updated regularly. Visit www.itabc.ca for the most current version.