

STEAMFITTER/PIPEFITTER

Occupation Description

“Steamfitter/Pipefitter” means a person who installs, alters, or repairs steam and hot water boilers and system for generation and conveyance of steam and hot water and process piping systems in industrial project of manufacturing plants.

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.

Pathways to Certification

In BC, an individual can become certified as a Steamfitter/Pipefitter by completing the Steamfitter/Pipefitter 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 an apprenticeship in high school through 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.

Foundation programs, where available, provide adults and youth who do not have work experience or employer sponsorship with an opportunity to gain the knowledge and skills needed to enter the occupation. Individuals who wish to enroll in a Foundation program must register directly with the training provider.

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 or equivalent including English 12, Algebra 11 or Trade Mathematics 11 and Physics 11 or Science and Technology 11

SkilledTradesBC Registration

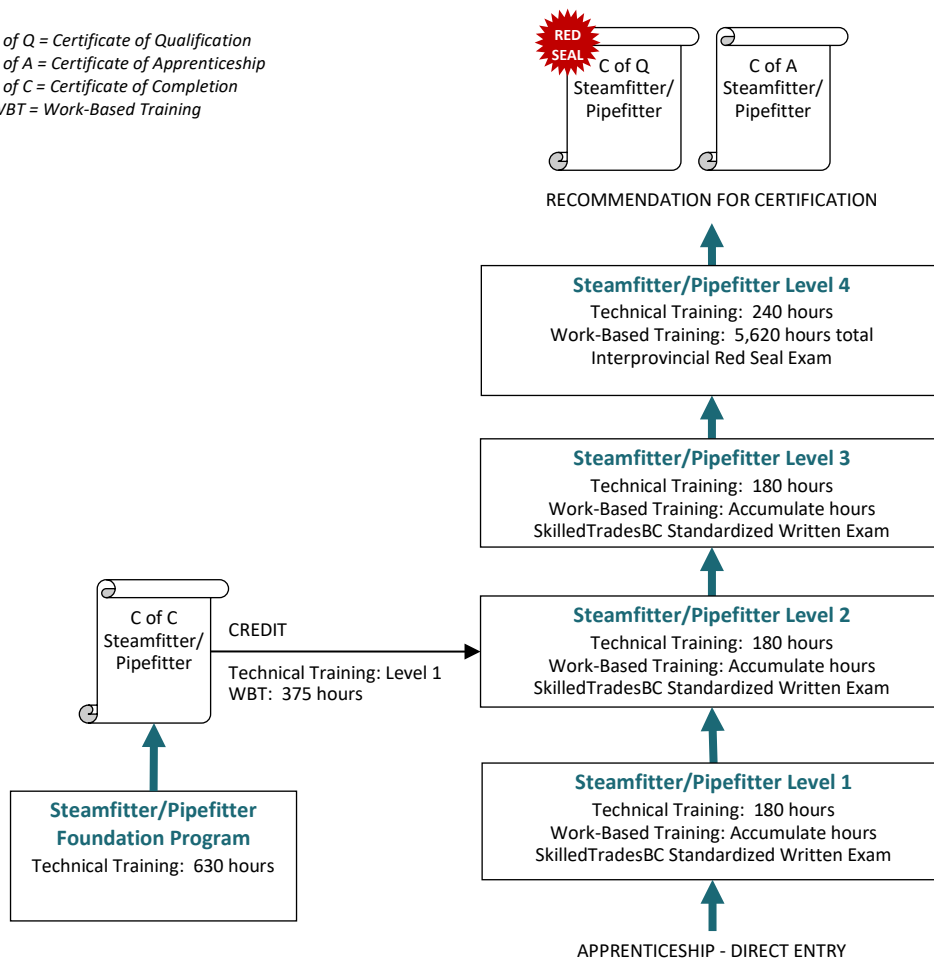
Individuals who wish to begin an apprenticeship in this program must register with SkilledTradesBC along with their sponsor. Application forms for all programs are available from the SkilledTradesBC website. Online registration is also available for most programs through the SkilledTradesBC website.

Those who wish to challenge the Steamfitter/Pipefitter certification must complete the Steamfitter/Pipefitter Challenge Application and submit it to SkilledTradesBC. Challenge applications are assessed for proof of workplace hours and scope of experience prior to acceptance of the individual into the Challenge pathway.

Apprenticeship Pathway

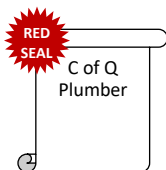
This graphic provides an overview of the Steamfitter/Pipefitter apprenticeship pathway.

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

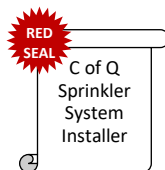


CROSS-PROGRAM CREDITS

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



Technical Training: Level 1
WBT: 3,600 hours



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WBT: 3,600 hours

Apprenticeship Program Standards

Credentials Awarded

- Steamfitter/Pipefitter – Certificate of Qualification with Interprovincial Red Seal endorsement
- Steamfitter/Pipefitter – Certificate of Apprenticeship

SkilledTradesBC Registration Prerequisites

- Agreement signed by the employer to sponsor the apprentice

Completion Requirements

Certification as a Steamfitter/Pipefitter is awarded upon successful completion of:

Requirement

Level of Achievement Required

Technical Training

Minimum 70% in each level of technical training:

- Level 1: 180 hours and SkilledTradesBC Standardized Written Exam
- Level 2: 180 hours and SkilledTradesBC Standardized Written Exam
- Level 3: 180 hours and SkilledTradesBC Standardized Written Exam
- Level 4: 240 hours

Interprovincial Red Seal Exam

- Minimum 70%

Work-Based Training

- 5,620 hours

Recommendation for Certification

- Recommendation for certification signed by the Sponsor and an individual holding credentials eligible for sign-off authority

Program Duration

Duration varies depending on how training is delivered, but the program generally takes 4 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, part-time) and/or level challenge where these options are available.

Sign-off Authority

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

- Steamfitter/Pipefitter – Certificate of Qualification
- Steamfitter/Pipefitter – Interprovincial Red Seal endorsement

Challenging a Level

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

- Level 1
- Level 2
- Level 3



Apprenticeship Program Standards

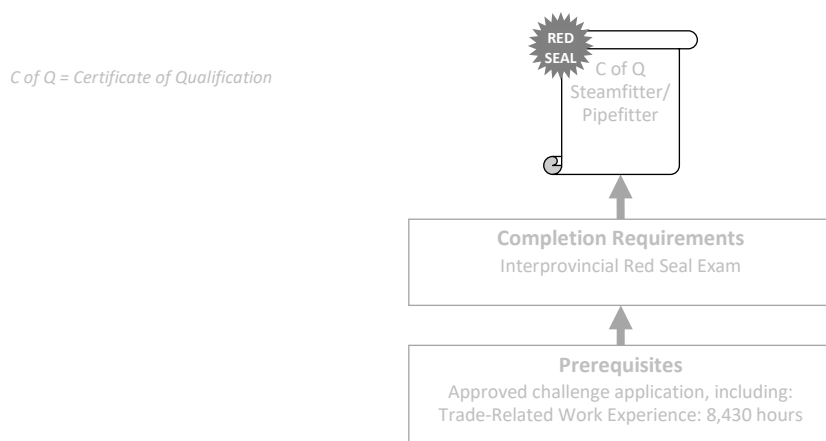
Cross-Program Credits

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

Credential	Credit(s) Granted
Plumber – Certificate of Qualification with Interprovincial Red Seal endorsement	<ul style="list-style-type: none"> ▪ Technical Training: Level 1 ▪ Work-Based Training: 3,600 hours
Sprinkler System Installer – Certificate of Qualification with Interprovincial Red Seal endorsement	<ul style="list-style-type: none"> ▪ Technical Training: Level 1 ▪ Work-Based Training: 3,600 hours

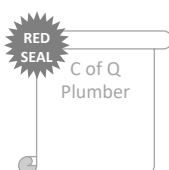
Challenge Pathway *(please refer to the Harmonized Steamfitter/Pipefitter Program Profile)*

This graphic provides an overview of the Steamfitter/Pipefitter challenge pathway.



CREDIT FOR PRIOR LEARNING

Individuals who hold the credentials listed below are considered to have met or partially met the prerequisites for challenging this program



Work experience: 5,620 hours



Work experience: 5,620 hours

Challenge Program Standards

Credentials Awarded

Steamfitter/Pipefitter – Certificate of Qualification with Red Seal Endorsement

SkilledTradesBC

Registration Prerequisites

An approved Challenge Application, which includes:

- 8,430 documented hours of directly related experience working in the occupation

Credit for Prior Learning

Individuals who hold the credentials listed below are considered to have met or partially met the prerequisites for challenging this program.

Credential	Credit(s) Granted
Plumber – Certificate of Qualification with Interprovincial Red Seal endorsement	▪ 5,620 workplace hours
Sprinkler System Installer – Certificate of Qualification with Interprovincial Red Seal endorsement	▪ 5,620 workplace hours

Completion Requirements

Certification as a Steamfitter/Pipefitter is awarded upon successful completion of:

Requirement	Level of Achievement Required
Interprovincial Red Seal Exam	▪ Minimum 70%



Foundation Program

Refer to the Apprenticeship pathway diagram for this program to see how the Steamfitter/Pipefitter Foundation program fits into apprenticeship.

Foundation Program Standards

Credentials Awarded	Steamfitter/Pipefitter – Certificate of Completion				
Enrollment Prerequisites	Contact training provider. Prerequisites vary between training institutions				
Completion Requirements	A Certificate of Completion in this program is awarded upon successful completion of: <table> <tr> <th>Requirement</th><th>Level of Achievement Required</th></tr> <tr> <td>Technical Training</td><td> <ul style="list-style-type: none"> Minimum 70% </td></tr> </table>	Requirement	Level of Achievement Required	Technical Training	<ul style="list-style-type: none"> Minimum 70%
Requirement	Level of Achievement Required				
Technical Training	<ul style="list-style-type: none"> Minimum 70% 				
Program Duration	Duration varies depending on how training is delivered, but program generally takes 630 hours to complete				
Credit toward Apprenticeship	<p>Individuals who complete the Steamfitter/Pipefitter Foundation program will receive the following credit toward completion of the Red Seal Steamfitter/Pipefitter apprenticeship program:</p> <ul style="list-style-type: none"> Technical Training: Level 1 Work-Based Training: 375 hours 				



Supporting Documents

Steamfitter/Pipefitter Program Outline (2009) – Defines the full scope of knowledge and skills required to competently perform the occupation in BC. Available from the SkilledTradesBC website.

RS Steamfitter/Pipefitter National Occupational Analysis (2008) – 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

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
Toll Free (within BC): 1-866-660-6011
Website: www.skilledtradesbc.ca

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

Revision History

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

Program Standards Approved: March 2002
Updated: January 2006
Updated: October 2009
Updated: February 2016
Updated: April 2019

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