



SPRINKLER FITTER

Occupation Description

Sprinkler Fitters lay out, install, repair, modify, inspect, test and maintain fire protection systems in a variety of buildings and settings. They work on fire protection systems such as wet, dry, water mist, pre-action, foam, deluge, standpipe, clean agent, carbon dioxide, hybrid, antifreeze, and wet and dry chemical fire suppression system. Their duties include reading and interpreting engineered drawings, installing hangers and clamps to support the piping system, preparing the pipe, joining pipe using a variety of methods and installing associated 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.

Pathways to Certification

In BC, an individual can become certified as a Sprinkler Fitter by completing the Sprinkler Fitter 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 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.

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 diploma 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.

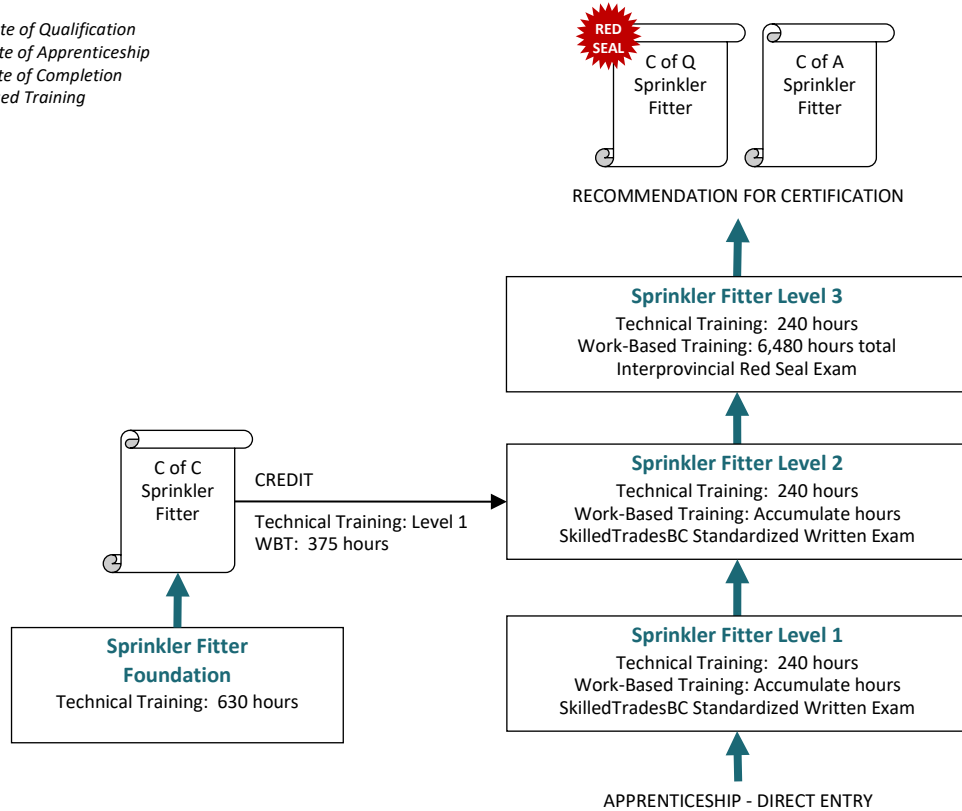
Those who wish to challenge the Sprinkler Fitter certification must complete the Sprinkler Fitter Challenge Application and submit it to SkilledTradesBC. Challenge applications are assessed for proof of workplace hours and scope of experience prior to acceptance of the individual into the Challenge pathway.



Apprenticeship Pathway

This graphic provides an overview of the Sprinkler Fitter 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

RED SEAL **C of Q Plumber**
Technical Training: Level 1
Work-Based Training: 3,600 hours*

RED SEAL **C of Q Steamfitter/Pipefitter**
Technical Training: Level 1
Work-Based Training: 3,600 hours*

*Individuals who are holders of more than one of these credentials will only be awarded credit for 3,600 hours total



Apprenticeship Program Standards

Credentials Awarded

- Sprinkler Fitter – Certificate of Qualification with Interprovincial Red Seal endorsement
- Sprinkler Fitter – Certificate of Apprenticeship

**SkilledTradesBC
Registration Prerequisites**

- Agreement signed by the employer to sponsor the apprentice

Completion Requirements Certification as a Sprinkler Fitter is awarded upon successful completion of:

Requirement	Level of Achievement Required
Technical Training	Minimum 70% in each level of technical training: <ul style="list-style-type: none"> ▪ Level 1: 240 hours and SkilledTradesBC standardized written exam ▪ Level 2: 240 hours and SkilledTradesBC standardized written exam ▪ Level 3: 240 hours
Interprovincial Red Seal Exam	<ul style="list-style-type: none"> ▪ Minimum 70%
Work-Based Training	<ul style="list-style-type: none"> ▪ 6,480 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 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:

- Sprinkler System Installer or Sprinkler Fitter – Certificate of Qualification
- Sprinkler System Installer or Sprinkler Fitter – Interprovincial Red Seal endorsement
- SkilledTradesBC-issued letter authorizing supervision and sign-off of apprentices in this occupation

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

- Level**
- Level 1



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*
Steamfitter/Pipefitter - Certificate of Qualification with Interprovincial Red Seal endorsement	<ul style="list-style-type: none"> ▪ Technical Training: Level 1 ▪ Work-Based Training: 3,600 hours*

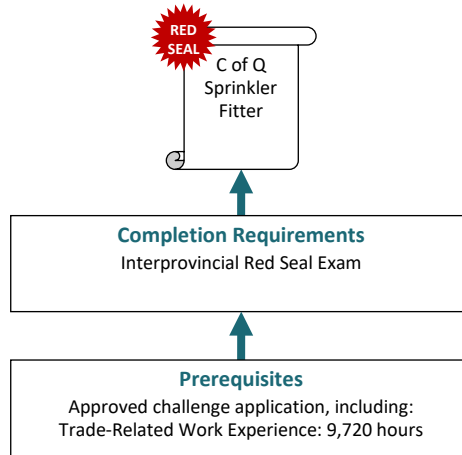
**Individuals who are holders of more than one of these credentials will only be awarded credit for 3,600 hours total*



Challenge Pathway

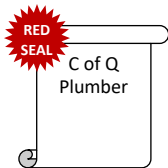
This graphic provides an overview of the Sprinkler Fitter challenge pathway.

C of Q = Certificate of Qualification

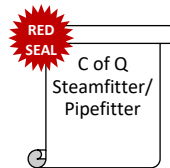


CREDIT FOR PRIOR LEARNING

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



Work Experience: 4,770 hours*



Work Experience: 4,770 hours*

**Individuals who are holders of more than one of these credentials will only be awarded credit for 4,770 hours total*



Challenge Program Standards

Credentials Awarded Sprinkler Fitter – Certificate of Qualification with Interprovincial Red Seal endorsement

SkilledTradesBC Registration Prerequisites An approved Challenge Application, which includes:

- 9,720 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	▪ Work Experience: 4,770 hours*
Steamfitter/Pipefitter – Certificate of Qualification with Interprovincial Red Seal endorsement	▪ Work Experience: 4,770 hours*

Completion Requirements Certification as a Sprinkler Fitter is awarded upon successful completion of:

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

**Individuals who are holders of more than one of these credentials will only be awarded credit for 4,770 hours total*

Foundation Program

Refer to the Apprenticeship pathway diagram for this program to see how the Sprinkler Fitter Foundation program leads to apprenticeship in this trade.

Foundation Program Standards

Credentials Awarded Sprinkler Fitter – 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:

Requirement	Level of Achievement Required
Technical Training	▪ Minimum 70%

Program Duration Duration varies depending on how training is delivered, but the program generally takes 630 hours to complete.

Credit toward Apprenticeship Individuals who complete the Sprinkler Fitter Foundation program will receive the following credit toward completion of the Sprinkler Fitter apprenticeship program:

- Technical Training: Level 1
- Work-Based Training: 375 hours



Supporting Documents

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

Sprinkler Fitter Red Seal Occupational Standard (2017) – 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	Fax:	778-328-8701
Toll Free (within BC):	1-866-660-6011	Email:	customerservice@skilledtradesbc.ca
Website:	www.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:	February 2011
Updated:	December 2017

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