



SHEET METAL WORKER

Occupation Description

“Sheet Metal Worker” means a person who lays out, fabricates, assembles, welds, installs, and services the following: ducting, spouting, fittings cabinets, gutters, copings, flashings, supporting devices, wall systems, building envelope, ornamental work and integral equipment associated with the blowpipe, air pollution, heating, ventilating, air-conditioning, roofing, restaurant, kitchen, marine installations and hospital equipment fields.

Pathways to Certification

In BC, an individual can become certified as a Sheet Metal Worker by completing the Sheet Metal Worker 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 ACE IT or Secondary School Apprenticeship (SSA) programs.

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.

- English 10, Mathematics 11 and Science 10 or equivalent
- Preferred: Grade 12

ITA Registration

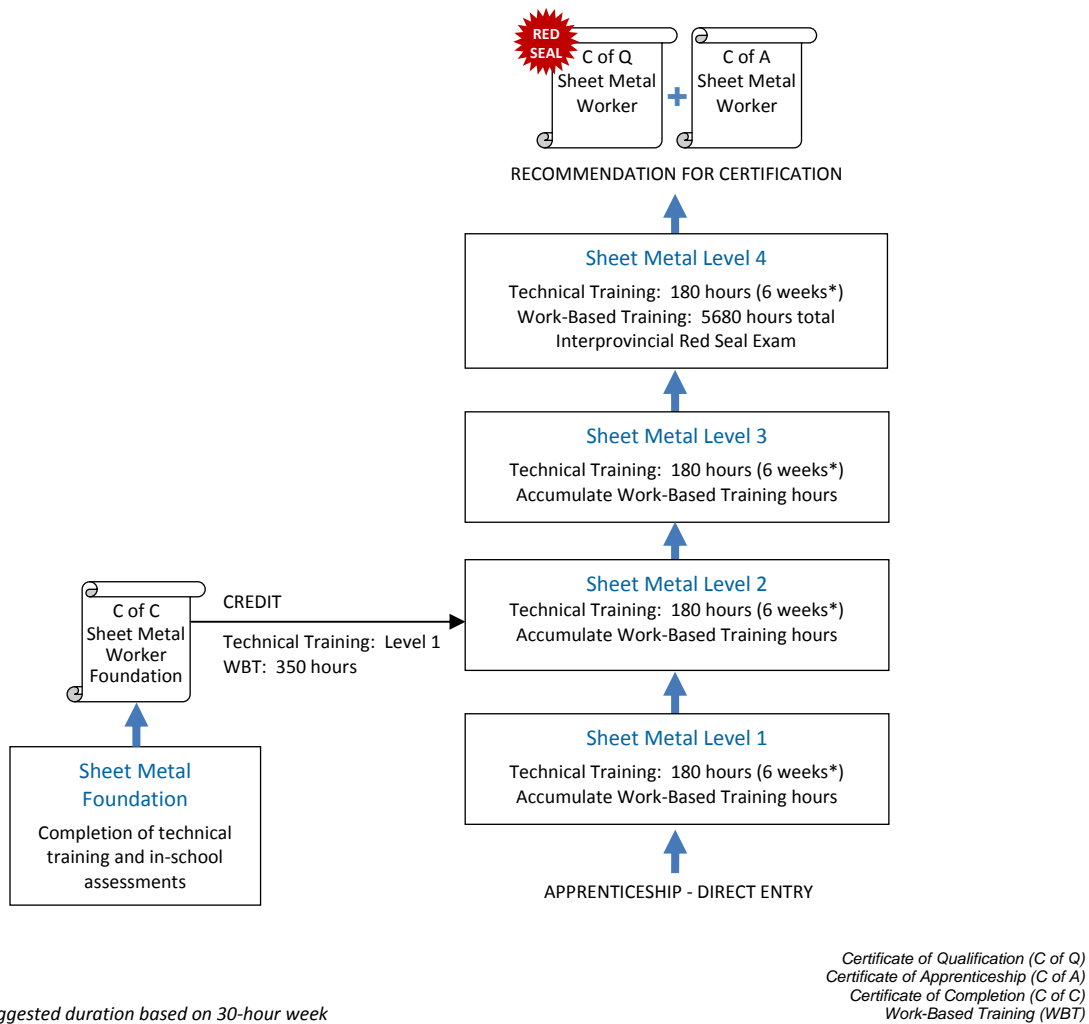
Individuals who wish to begin an apprenticeship in this program must register with ITA along with their sponsors. Application forms are available from the ITA website. Online registration is also available for most programs through the ITA website.

Those who wish to challenge the Sheet Metal Worker certification must complete the Sheet Metal Worker Challenge Package and submit it to ITA. Challenge applications are assessed for proof of workplace hours and scope of experience prior to acceptance of an individual into the Challenge pathway.



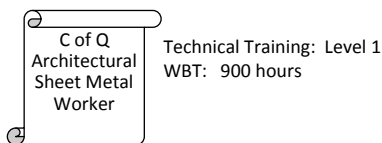
Apprenticeship Pathway

This graphic provides an overview of the Sheet Metal Worker apprenticeship pathway.



CROSS-PROGRAM CREDITS

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





Apprenticeship Program Standards

Credentials Awarded

- Sheet Metal Worker - Certificate of Qualification with Red Seal endorsement
- Sheet Metal Worker - Certificate of Apprenticeship

ITA Registration Prerequisites

- Signed agreement from employer to sponsor the apprentice (Sponsor)

Completion Requirements Certification as a Sheet Metal Worker is awarded upon successful completion of:

Requirement	Level of Achievement Required
▪ Level 1 Technical Training (180 hours or 6 weeks*)	▪ Minimum 70%
▪ Level 2 Technical Training (180 hours or 6 weeks*)	▪ Minimum 70%
▪ Level 3 Technical Training (180 hours or 6 weeks*)	▪ Minimum 70%
▪ Level 4 Technical Training (180 hours or 6 weeks*)	▪ Minimum 70%
▪ Work-Based Training	▪ 5680 hours
▪ Recommendation for Certification	▪ Recommendation for certification signed by the Sponsor and an individual holding credentials eligible for sign-off authority.
▪ Interprovincial Red Seal Exam	▪ Minimum 70%

(*Assuming 30 hours in school per week)

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 an ITA-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:

- Sheet Metal Worker – Certificate of Qualification
- Sheet Metal Worker – Interprovincial Red Seal Endorsement
- ITA-issued letter authorizing supervision and sign-off of apprentices for this occupation

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

- Level 1
- Level 2
- Level 3

Cross-Program Credits	Credential	Credit(s) Granted
	Architectural Sheet Metal Worker Certificate of Qualification	• Technical Training: None • Work-Based Training: 900 hours
	Architectural Sheet Metal Worker Level 1 Technical Training	• Technical Training: Level 1 • Work-Based Training: None

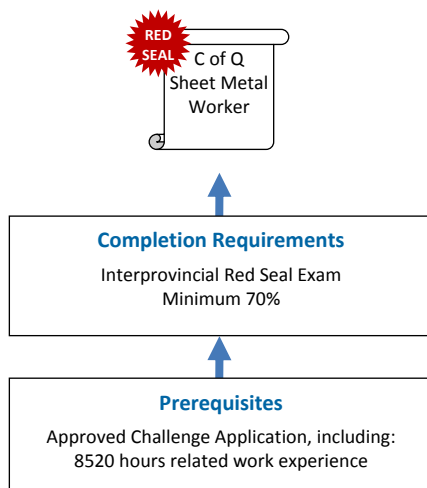


Program Description	Refer to the Sheet Metal Worker Program Outline for detailed information on the competencies, learning tasks, content and achievement criteria associated with this program. It is available on the ITA website.
Training Topics	Refer to the Training Topics and Suggested Time Allocation in the Program Outline for an overview of the scope of competencies covered in the technical training, the suggested proportion of time spent on each general area of competency, and the percentage of that time spent on theory versus practical application.



Challenge Pathway

This graphic provides an overview of the Sheet Metal Worker challenge pathway.



Challenge Program Standards

Credentials Awarded	Sheet Metal Worker - Certificate of Qualification with Red Seal endorsement				
ITA Registration Pre-requisites	An approved Challenge Application, which includes: <ul style="list-style-type: none"> 8520 documented hours of directly related experience working in the occupation Evidence of achievement of required competencies 				
Credentials Entitled to Challenge	Individuals who hold the credentials listed below are considered to have met the pre-requisites for challenging this program. <ul style="list-style-type: none"> None 				
Completion Requirements	Certification as a Sheet Metal Worker is awarded upon successful completion of: <table border="1" style="width: 100%; margin-top: 10px;"> <thead> <tr> <th style="text-align: left;">Requirement</th> <th style="text-align: left;">Level of Achievement Required</th> </tr> </thead> <tbody> <tr> <td>Interprovincial Red Seal Examination</td> <td>Minimum 70%</td> </tr> </tbody> </table>	Requirement	Level of Achievement Required	Interprovincial Red Seal Examination	Minimum 70%
Requirement	Level of Achievement Required				
Interprovincial Red Seal Examination	Minimum 70%				
Competencies Assessed	Refer to the Training Topics and Suggested Time Allocation section of the Program Outline or the Challenge Application for this program for an overview of the scope of competencies covered in the technical training for this program.				



Foundation Program

Refer to the Apprenticeship pathway credentialing model for this program to see how the Sheet Metal Worker Foundation program fits into the apprenticeship pathway for this occupation.

Foundation Program Standards

Credentials Awarded	Sheet Metal Worker - Certificate of Completion	
Enrollment Pre-requisites	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
	<ul style="list-style-type: none"> ▪ Technical Training 	<ul style="list-style-type: none"> ▪ Completion of in-school practical and theory assessments ▪ Minimum 70%
Program Duration	Duration varies depending on how training is delivered, but the program generally takes 20 weeks to complete, assuming 30 hours in school per week	
Credit toward Apprenticeship	Individuals who complete the Sheet Metal Worker Foundation program will receive the following credit toward completion of the Sheet Metal Worker apprenticeship program: <ul style="list-style-type: none"> ▪ Technical Training: Level 1 ▪ Work-Based Training: 350 hours 	
Training Topics	General Areas of Competence <ul style="list-style-type: none"> ▪ Use Safe Work Practices ▪ Use Tools and Equipment ▪ Organize Work ▪ Layout and Develop Patterns ▪ Fabricate Trade Related Products ▪ Install Air Handling Systems 	Essential Skills <ul style="list-style-type: none"> ▪ Interpersonal Skills ▪ Teamwork Skills ▪ Document Use, Text Reading & Numeracy Skills ▪ Critical Thinking Skills ▪ Communication & Listening Skills ▪ Problem Solving & Troubleshooting Skills ▪ Decision Making Skills ▪ Computer Use Skills ▪ Job Planning & Organizational Skills ▪ Safety Skills ▪ Use of Hand Tools & Equipment Skills



Additional Information

Supporting Documents

Sheet Metal Worker Program Outline (2011) – Defines the full scope of knowledge and skills required to competently perform the occupation in BC. Available from the ITA website.

National Occupational Analysis (2010) – 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

The BC Construction Industry Training Organization (CITO) works with industry to identify current and emerging knowledge and skill requirements for occupations related to this program, explore training and certification options, and maintain this program.

Telephone: 604- 431-1994
Website: www.bccito.ca

Fax: 1-866-826-9643
Email: info@bccito.ca

Revision History

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

Program Standards Approved: March 2002
Updated: March 2008
November 2011

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