

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 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.

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

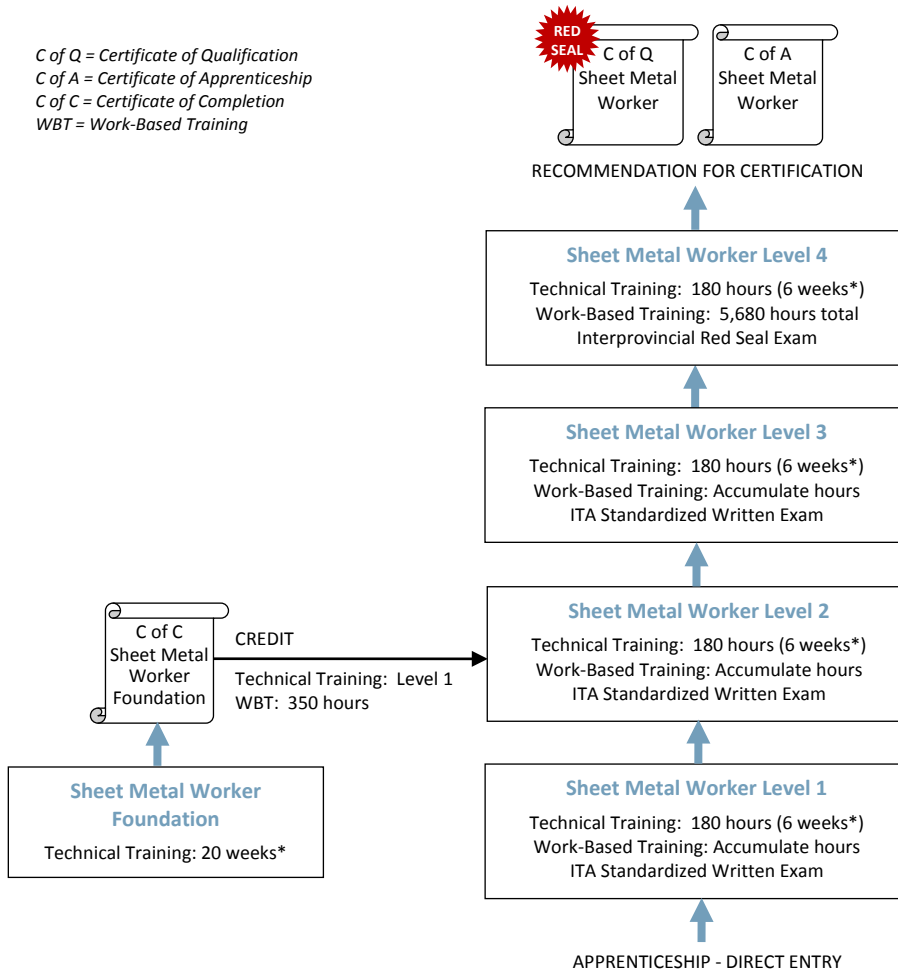
ITA Registration

Individuals who wish to begin an apprenticeship in this program must register with ITA along with their sponsor. Application forms for all programs 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 Application 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.



**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

C of Q Architectural Sheet Metal Worker
Technical Training: Level 1
Work-Based Training: 900 hours

Architectural Sheet Metal Worker – Level 1
Technical Training: Level 1
Work-Based Training: None

Apprenticeship Program Standards

Credentials Awarded	<ul style="list-style-type: none"> ▪ Sheet Metal Worker - Certificate of Qualification with Interprovincial Red Seal endorsement ▪ Sheet Metal Worker - Certificate of Apprenticeship 										
ITA Registration Prerequisites	<ul style="list-style-type: none"> ▪ Agreement signed by the employer to sponsor the apprentice 										
Completion Requirements	<p>Certification as a Sheet Metal Worker is awarded upon successful completion of:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black;">Requirement</th> <th style="text-align: left; border-bottom: 1px solid black;">Level of Achievement Required</th> </tr> </thead> <tbody> <tr> <td style="border-bottom: 1px solid black;">Technical Training</td> <td style="border-bottom: 1px solid black;"> Minimum 70% in each level of technical training: <ul style="list-style-type: none"> ▪ Level 1: 180 hours (or 6 weeks*) and ITA Standardized Written Exam ▪ Level 2: 180 hours (or 6 weeks*) and ITA Standardized Written Exam ▪ Level 3: 180 hours (or 6 weeks*) and ITA Standardized Written Exam ▪ Level 4: 180 hours (or 6 weeks*) </td> </tr> <tr> <td style="border-bottom: 1px solid black;">Interprovincial Red Seal Exam</td> <td style="border-bottom: 1px solid black;"> <ul style="list-style-type: none"> ▪ Minimum 70% </td> </tr> <tr> <td style="border-bottom: 1px solid black;">Work-Based Training</td> <td style="border-bottom: 1px solid black;"> <ul style="list-style-type: none"> ▪ 5,680 hours </td> </tr> <tr> <td style="border-bottom: 1px solid black;">Recommendation for Certification</td> <td style="border-bottom: 1px solid black;"> <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> <p style="text-align: center; margin-top: 10px;"><i>(*Assuming 30 hours in school per week)</i></p>	Requirement	Level of Achievement Required	Technical Training	Minimum 70% in each level of technical training: <ul style="list-style-type: none"> ▪ Level 1: 180 hours (or 6 weeks*) and ITA Standardized Written Exam ▪ Level 2: 180 hours (or 6 weeks*) and ITA Standardized Written Exam ▪ Level 3: 180 hours (or 6 weeks*) and ITA Standardized Written Exam ▪ Level 4: 180 hours (or 6 weeks*) 	Interprovincial Red Seal Exam	<ul style="list-style-type: none"> ▪ Minimum 70% 	Work-Based Training	<ul style="list-style-type: none"> ▪ 5,680 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
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Work-Based Training	<ul style="list-style-type: none"> ▪ 5,680 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 4 years to complete.</p> <p>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.</p>										
Sign-off Authority	<p>Credentials eligible to sign-off on the Recommendation for Certification:</p> <ul style="list-style-type: none"> ▪ 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	<p>The following levels of technical training can be challenged for advanced placement in this program:</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black;">Level</th> <th style="text-align: left; border-bottom: 1px solid black;">Prerequisites</th> </tr> </thead> <tbody> <tr> <td style="border-bottom: 1px solid black;">▪ Level 1</td> <td style="border-bottom: 1px solid black;">▪ N/A</td> </tr> <tr> <td style="border-bottom: 1px solid black;">▪ Level 2</td> <td style="border-bottom: 1px solid black;">▪ N/A</td> </tr> <tr> <td style="border-bottom: 1px solid black;">▪ Level 3</td> <td style="border-bottom: 1px solid black;">▪ N/A</td> </tr> </tbody> </table>	Level	Prerequisites	▪ Level 1	▪ N/A	▪ Level 2	▪ N/A	▪ Level 3	▪ N/A		
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Apprenticeship Program Standards

Cross-Program Credits

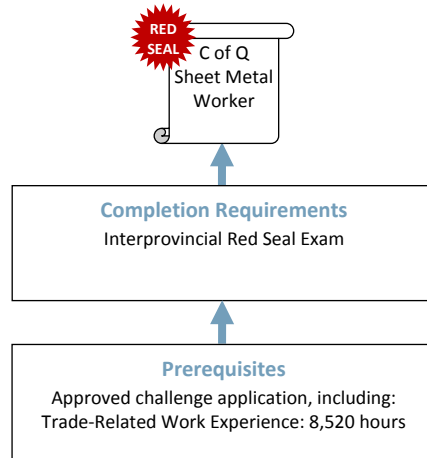
Individuals who hold the credentials listed below are entitled to receive partial credit toward the completion requirements of this program

Credential	Credit(s) Granted
Architectural Sheet Metal Worker Certificate of Qualification	<ul style="list-style-type: none"> ▪ Technical Training: Level 1 ▪ Work-Based Training: 900 hours
Architectural Sheet Metal Worker Level 1 Technical Training	<ul style="list-style-type: none"> ▪ Technical Training: Level 1 ▪ Work-Based Training: None

Challenge Pathway

This graphic provides an overview of the Sheet Metal Worker 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

None



Challenge Program Standards

Credentials Awarded	Sheet Metal Worker - Certificate of Qualification with Interprovincial Red Seal endorsement					
ITA Registration Prerequisites	An approved Challenge Application, which includes: <ul style="list-style-type: none"> ▪ 8,520 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: <ul style="list-style-type: none"> ▪ None 					
Completion Requirements	Certification as a Sheet Metal Worker is awarded upon successful completion of: <table 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 Exam</td> <td> <ul style="list-style-type: none"> ▪ Minimum 70% </td> </tr> </tbody> </table>		Requirement	Level of Achievement Required	Interprovincial Red Seal Exam	<ul style="list-style-type: none"> ▪ Minimum 70%
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Foundation Program

Refer to the Apprenticeship pathway credentialing model for this program to see how the Sheet Metal Worker Foundation program leads to apprenticeship in this trade.

Foundation Program Standards

Credentials Awarded	Sheet Metal Worker - 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 border="1" style="width: 100%; margin-top: 10px;"> <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> <ul style="list-style-type: none"> ▪ Minimum 70% </td> </tr> </tbody> </table>	Requirement	Level of Achievement Required	Technical Training	<ul style="list-style-type: none"> ▪ Minimum 70%
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Technical Training	<ul style="list-style-type: none"> ▪ 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 				



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.

Sheet Metal Worker 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

Revision History

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

Program Standards Approved:	March 2002
Updated:	March 2008
Updated:	November 2011
Updated:	August 2013

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