

# Metal Fabrication: Apprenticeship

Faculty of Trades and Technology	kpu.ca/trades
Metal Fabrication	kpu.ca/trades/metal_fabrication
Implementation Date	01-Sep-2011
Start Date(s)	Varies
Admission Type	Apprenticeship
Enrolment Type	Limited enrolment
Program Type	Vocational
Credential Granted	No Credential
Offered At	Cloverdale
Format	Full-time
How to Register	www.kpu.ca/apprentice

## DESCRIPTION

### *Get the skills that pay the bills!*

In BC, an individual can become certified Metal Fabricator by completing the Metal Fabrication apprentice program. Apprenticeship programs are designed to provide students the full scope of knowledge and applied skills necessary to perform the occupation. Apprentices have an employer to sponsor them and are registered with the Industry Training Authority (ITA).

KPU delivers in-school technical training for Metal Fabrication apprenticeship levels 1, 2, and 3. The in-school technical training for each level is 5 weeks in duration and includes an end of level exam. Additional information is available at: [kpu.ca/trades/metal\\_fabrication](http://kpu.ca/trades/metal_fabrication).

The pathway to becoming a certified Metal Fabricator generally takes 4 years to complete the in-school technical training and work-based training hours. Metal Fabrication apprentices will be eligible to write the Red Seal Inter-provincial Examination upon completion of all in-school technical training. The Red Seal will be awarded upon completion of 6400 hours of work-based training hours and is recognized in all jurisdictions across Canada; additional information is at: [red-seal.ca](http://red-seal.ca).

## Employment Insurance (EI) Eligibility

Provincial program financial supports must be applied for online through the Apprentice Online Portal at <http://www.apprenticeonline.gov.bc.ca/>. It is recommended that apprentices apply for these supports four weeks in advance of the start of their technical training and application must be made no later than the first day of technical training.

## GENERAL PREREQUISITES

The following requirements apply:

- Active apprentice registration in the BC Apprenticeship system.
- A valid Trade Worker Identification number from the Industry Training Authority (ITA-ID). If you do not have an ITA-ID, you will need to complete an apprenticeship registration form through the ITA ([www.itabc.ca](http://www.itabc.ca)) prior to enrolling (Level 1 through to 4). To determine your eligibility please consult with the Industry Training Authority.

**Note:** International student enrolment requires approval of the Dean.

## PROGRAM REQUIREMENTS

### Metal Fabrication Level 1 (AMFB 1010)

- Introduction to the Trade
- Use Safe Work Practices
- Solve Trade Mathematics Problems
- Use Trade Tools
- Use Shop Equipment
- Burn and Weld Metals
- Read Drawings
- Use Material Handling Equipment
- Use Structural Layout Techniques
- Develop Plate and Structural Patterns
- Use Surface Preparation and Finishing Methods
- Fabricate Plate and Structural Sections

### Metal Fabrication Level 2 (AMFB 1020)

- Solve Trade Math Problems
- Use Shop Equipment
- Burn and Weld Metal
- Read Drawings
- Use Material Handling Equipment
- Use Structural Layout Techniques
- Develop Plate and Structural Patterns
- Fabricate Plate and Structural Projects

### Metal Fabrication Level 3 (AMFB 1030)

- Solve Trade Math Problems
- Use Shop Equipment
- Read Drawings
- Use Structural Layout Techniques
- Develop Plate and Structural Patterns
- Fabricate Plate and Structural Sections

### Metal Fabrication Level 4 (AMFB 1040)

- Solve Trade Math Problems
- Use Trade Tools and Shop Equipment
- Read Drawings
- Use Structural Layout Techniques
- Develop Plate and Structural Patterns
- Fabricate Plate and Structural Sections
- Describe Basic Metallurgy and Testing Techniques
- Use Testing and Inspection Methods
- On-site Installation

## OTHER INFORMATION

### Special Equipment

Students will require appropriate tools and safety wear in conformance with WorkSafeBC regulations that includes safety glasses and steel toed boots.

# CREDENTIAL AWARDED

KPU will report your in-school technical training completion information to the Industry Training Authority (ITA) in order for the ITA to determine credit towards your designated apprenticeship.