

# Metal Fabrication: Apprenticeship

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|----------------------------------|---------------------------------|
| Faculty of Trades and Technology | kpu.ca/trades                   |
| Metal Fabrication                | kpu.ca/trades/metal_fabrication |
| Program Type                     | Vocational                      |
| Credential Granted               | No Credential                   |
| Offered At                       | Cloverdale                      |
| Start Date(s)                    | Varies                          |
| Intake Type                      | Apprenticeship                  |
| Format                           | Full-time                       |
| Instructional Cycle              | Fixed-term                      |
| Curriculum Effective Date        | 01-Sep-2011                     |
| 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).

## Training Schedules

KPU apprentice training schedules and waitlists are published on Kwantlen Course Search. Additional apprenticeship training opportunities are listed on Trades Training BC; this is the hub for BC's Public Trades Training Programs & Services.

## Financial Supports for Apprentices

Apprentices may be eligible for financial support for the in-class portion of their training through the EPBC Apprentice Program Financial Supports. Application to this program must be made four to six weeks prior to the start of technical training. Information is available through WorkBC.

Apprentices must apply separately for Employment Insurance (EI) Benefits no later than the last week of work, or during the first week of training, or they will not be eligible to receive EPBC Apprentice Program Financial Supports. EI information can be obtained by visiting Service Canada.

The Canada Apprentice Loan is an initiative of the Government of Canada. As of January 2015, apprentices can apply for up to \$4,000 in interest-free loans per period of in-school technical training. Information is available at the Canada Apprentice Loan Service Centre.

## GENERAL PREREQUISITES

The following requirements apply:

- Completed KPU Apprentice Registration
- Active apprentice registration in the BC Apprenticeship system.
- 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.

## CURRICULAR REQUIREMENTS

**Note:** KPU Tech does not permit students to register in Apprenticeship Levels out of sequence.

### 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.