

# Metal Fabrication/Fitter: Citation (Foundation)

<b>Faculty of Trades and Technology</b>	kpu.ca/trades
<b>Citation in Metal Fabrication</b>	kpu.ca/trades/metal_fabrication
<b>Implementation Date</b>	01-Sep-2011
<b>Start Date(s)</b>	Varies
<b>Intake Type</b>	Limited intake
<b>Instructional Cycle</b>	Fixed-term
<b>Program Type</b>	Vocational
<b>Credential Granted</b>	Citation
<b>Offered At</b>	Cloverdale
<b>Format</b>	Full-time
<b>How to Apply</b>	www.kpu.ca/admission

## DESCRIPTION

This 23 week program prepares students for employment as a metal fabricator apprentice. Students learn the interpretation of technical drawings and layout of metal components, cutting, burning, sawing, shear, punching, drilling, and shaping of those components, through to assembly and welding or fastening to create the finished product. Practical projects are performed in a shop environment to develop the necessary habits concerning safety, time management, machinery, materials, and work skills necessary for the trade.

Students who complete the Foundation program are eligible for ITA credit in Metal Fabricator Level 1 apprenticeship and 450 work-based hours.

Taking a foundation program can build the skills that employers are looking for. To progress as an apprentice you will need to find an employer who will sponsor your apprenticeship and register with the Industry Training Authority (ITA). When you are ready for career advancement; KPU delivers Metal Fabrication Apprentice in-school technical training levels 2 and 3.

Details on program dates are available on Kwantlen Course Search.

## STUDENT PROFILE

This program is suited for individuals that have good math and mechanical skills, and who enjoy fabrication and assembly from drawings and sketches. Physical demand can vary; there is a considerable amount of standing, lifting and need for hand-eye coordination. Additional information is available at: [kpu.ca/trades/metal\\_fabrication](http://kpu.ca/trades/metal_fabrication)

## CAREER OPPORTUNITIES

This program prepares graduates for employment by structural steel, boiler and plate-work fabrication plants and by heavy machinery manufacturing and shipbuilding companies.

## ADMISSION REQUIREMENTS

In addition to KPU's General university admission requirements, including the vocational-level English Proficiency Requirement, the following program admission requirements apply.

- English:
  - English 12 with a minimum grade of 'C' (or equivalent), or
  - Completion of KPU's Trades reading test with a minimum score of 80%
- Mathematics:
  - Apprenticeship and Workplace Mathematics 11 with a minimum grade of 'C' (or equivalent), or
  - Foundations of Mathematics 11 with a minimum grade of 'C' (or equivalent), or
  - Pre-calculus 11 with a minimum grade of 'C' (or equivalent), or
  - KPU's Trades Mathematics test with a minimum threshold percentage of 63%

### Notes:

- Group information sessions are regularly scheduled at the Cloverdale campus, and participation is highly recommended. Please see [kpu.ca/trades](http://kpu.ca/trades) for schedule information.
- Completion of high school shop courses is an asset.
- International student Application for Admission requires approval of the Dean.

Satisfactory physical health is also recommended. Prior to applying, prospective students with mental or physical impairments, who may require program accommodations, should contact the Office of the Dean of Trades and Technology to discuss required skills and competencies, and a Disability Advisor at 604.599.3233 to ensure appropriate accommodations can be arranged.

## CURRICULAR REQUIREMENTS

### Required Courses:

ENGT 1015	Communication Skills for Trades I	1.5 credits
MATT 1015	Mathematics/Science for Manufacturing and Mechanical Trades 1	3.0 credits
MFAB 1100	Safe Working Procedures	2.5 credits
MFAB 1110	Trade-specific Tools	2.0 credits
MFAB 1115	Basic Stationary Power Equipment	2.0 credits
MFAB 1120	Oxy-fuel and Cutting Equipment	2.0 credits
MFAB 1125	Welding for Metal Fabrication	2.5 credits
MFAB 1130	Read Basic Drawings	2.0 credits
MFAB 1141	Basic Metal Fabrication	4.0 credits
MFAB 1150	Metallurgy Theory	1.5 credits

## OTHER INFORMATION

### Special Equipment

Students will require appropriate personal safety equipment, including high-top steel-toed safety boots, safety glasses, safety gloves, welding gloves, respirator (silicone half-mask type with cartridges for organic vapours and particulate filters) and cotton coveralls. Students are also required to have hand tools and a tool box for shop use, a list will be provided upon acceptance to the program.

# CREDENTIAL AWARDED

Upon successful completion of the program, students are eligible to receive a **Citation in Metal Fabrication/Fitter** and a Metal Fabricator's Logbook.

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.