

CITATION IN METAL FABRICATION/FITTER

At a Glance

Faculty

www.kpu.ca/trades (<http://www.kpu.ca/trades/>)

Area of Study:

www.kpu.ca/trades/metal_fabrication (http://www.kpu.ca/trades/metal_fabrication/)

Academic Level:

Vocational

Credential Granted:

Citation

Intake Type:

- Limited

Minimum Credits Required:

21.5

Curriculum Effective Date:

01-Sep-2011

Description

This 23 week program students 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 SkilledTradesBC 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 SkilledTradesBC (<https://skilledtradesbc.ca/>). When you are ready for career advancement; KPU delivers Metal Fabrication Apprentice (<https://calendar.kpu.ca/apprenticeships/metal-fabrication-apprenticeship/>) in-school technical training levels 2 and 3.

Please see [kpu.ca/trades](http://www.kpu.ca/trades) (<http://www.kpu.ca/trades/>) for schedule information.

Who Studies Metal Fabrication/Fitter?

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://www.kpu.ca/trades/metal_fabrication) (http://www.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.

Requirements

Admission Requirements

In addition to meeting one of KPU's applicant categories, the following program admission requirements apply:

- English:
 - English Studies 12 with a minimum grade of 'C' (or equivalent), or
 - Literary Studies 12 with a minimum grade of 'C' (or equivalent), or
 - English First Peoples 12 with a minimum grade of 'C' (or equivalent), or
 - Composition 12 with a minimum grade of 'C' (or equivalent), or
 - Creative Writing 12 with a minimum grade of 'C' (or equivalent), or
 - Completion of KPU's Vocational Trades English Reading Assessment with a minimum score of 80%
- Mathematics:
 - 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 Math Placement Tests (MPT) with a minimum score of 12.

Notes:

- Group information sessions are regularly scheduled at the Cloverdale campus, and participation is highly recommended. Please see [kpu.ca/trades](http://www.kpu.ca/trades) (<http://www.kpu.ca/trades/>) for schedule information.
- Completion of high school technology education courses is an asset in the ability to progress through the program.

Accessibility Services (Accommodations): Students seeking accommodations for a disability should contact Accessibility Services to explore options to remove potential barriers to their learning experience. Prospective students and applicants are encouraged to reach out for support as early as possible as some services require advance planning. An Accessibility Advisor or Learning Specialist will review the course essential skills and abilities and determine what, if any, accommodations could support your education.

Curricular Requirements

Students must achieve a minimum grade of B- in all required courses.

Code	Title	Credits
ENGT 1015	Communication Skills for Trades I	1.5
MATT 1013	Mathematics/Science for Manufacturing and Mechanical Trades Level 1	1.5
MFAB 1100	Safe Working Procedures	2.5
MFAB 1110	Trade-Specific Tools	2
MFAB 1115	Basic Stationary Power Equipment	2

MFAB 1120	Oxy-fuel and Cutting Equipment	2
MFAB 1125	Welding for Metal Fabrication	2.5
MFAB 1130	Read Basic Drawings	2
MFAB 1141	Basic Metal Fabrication	4
MFAB 1150	Metallurgy Theory	1.5
Total Credits		21.5

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 of required tools, equipment or supplies will be provided by the instructor at the start of 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 SkilledTradesBC in order for SkilledTradesBC to determine credit towards your designated apprenticeship.