

Metal Fabrication/Fitter: Citation (Foundation)

Faculty of Trades and Technology	kpu.ca/trades
Citation in Metal Fabrication	kpu.ca/trades/metal_fabrication
Implementation Date	01-Sep-2011
Start Date(s)	Varies
Admission Type	Fixed term
Enrolment Type	Limited enrolment
Program Type	Vocational
Credential Granted	Citation
Offered At	Cloverdale
Format	Full-time
How to Apply	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.

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

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.

PROGRAM 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%

- Interview by an instructor

Notes:

- International student Application for Admission requires approval of the Dean.
- Physics 11 is an asset but not a requirement.

Recommend satisfactory physical health. 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.

PROGRAM 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. They will be provided with instruction on hand tool requirements and a list of tools required for practical work.

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.