

# Metal Fabrication: Citation (Foundation)

Faculty of Trades and Technology	
kwantlen.ca/trades	
Citation in Metal Fabrication	
IMPLEMENTATION DATE	START DATE(S)
01-Sep-2011	Varies
ADMISSION TYPE	ENROLMENT TYPE
Fixed term	Limited enrolment
PROGRAM TYPE	CREDENTIAL GRANTED
Vocational	Citation
OFFERED AT	FORMAT
Cloverdale	Full-time
HOW TO APPLY	
www.kwantlen.ca/admission	

## DESCRIPTION

In this 23 week program students will be educated in theoretical and practical skills that industry requires of graduates to be job-ready as Metal Fabrication apprentices. Students will 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. They will develop the necessary habits concerning safety and the proper use of time, machinery, materials, and the work skills required to be a competent trade's person in today's workforce. Additional information is available on our program website at [kwantlen.ca/trades/metal\\_fabrication](http://kwantlen.ca/trades/metal_fabrication)

Students who complete the Foundation program are eligible for credit for the first level of apprenticeship in-school technical training, as well as 450 work-based hours toward completion of the Metal Fabrication apprenticeship program.

For further information about the trade please check the Red Seal website: [www.red-seal.ca](http://www.red-seal.ca).

## PROGRAM ADMISSION REQUIREMENTS

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

- Adequate reading comprehension and math skills as assessed by Kwantlen (Physics 11, Math 11 and 12 would be an asset but not a requirement). Students must be able to perform a variety of cognitive, emotional and physical tasks safely within the program.
- Interview with instructor

Students with mental or physical impairments, who may require program or practicum accommodations, should contact the Program Coordinator at 604.598.6147 to discuss required skills and competencies, and a Disability Advisor at 604.599.3233 to ensure appropriate accommodations can be arranged.

## CONTENT

### 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.

### Text Books

Students are required to purchase their own text book for each level of the program. They will be instructed on which text books are required on the first day of each program. Text books can be purchased at the Kwantlen Book Store.

## GRADUATION

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

Upon successful completion, Kwantlen will also report your technical training completion information to the Industry Training Authority (ITA) in order for the ITA to determine credit towards your designated apprenticeship.