

WELDING AND FABRICATION TECHNICIAN (WFTN)

From concept to finished product, make metal fabrication projects a reality.

Take metal fabrication projects from the engineering drawing stage through the cutting and forming processes to the welding and inspection phase. Working in our welding lab, you'll gain hands-on experience by using industry-standard equipment to hone your welding skills and take projects from concept to finished product.

You have the option to start your apprenticeship and will also have unique opportunities to work on community and applied research projects and polish your skills in the real world. Required work preparation sessions help you develop an industry-specific resume and effective interviewing skills. Our program features an optional, paid co-op directly related to your program of study.

Program highlights

- Capped enrolment
- Your diploma equates to 3 levels of required theory towards your apprenticeship Certificate of Qualification
- Take projects from concept to finished product
- Real-world experience using industry-standard equipment in the College's welding lab
- Optional paid co-op to gain industry training
- Opportunity for select students to participate in the Ontario Skills Competition

Program of study for 2024-25 Academic Year

Students are required to successfully complete an online Lab Safety course (in Moodle) when starting their program at Cambrian. This course must be completed prior to entering the labs (as identified in the table below) in the Schools of Skills Training, Engineering Technology and Environmental Studies.

Semester 1		Credits
MTH 1010	Trade Math I	3
WLD 1001	Blueprint Reading & Drafting I ¹	3
WLD 1003	Metal Trades Practices ¹	3
WLD 1122	Welding Applications I ¹	8
WLD 1131	Welding Processes & Technology I	3
ENG 1002	College Communications	3
Credits		23
Semester 2		Credits
FAB 1200	Fabrication & Assembly Practices I ¹	4
WLD 1000	Welding Metallurgy	3
WLD 1004	Layout & Template Development I	3
WLD 1006	Drawing/Inter. & Drafting I	4
WLD 1226	Welding Appl. & Practical Skill I ¹	4
One General Education course. ²		3
Credits		21
Semester 3		Credits
ENG 1780	Applied Communication II	2

FAB 2300	Fabrication & Assembly Practices II ¹	4
WLD 1007	Drawing Interpretation	4
WLD 1009	Welding Processes & Practices	3
WLD 1011	Intro to Steel Detailing	3
WLD 2322	Welding Appl. & Practical Skill II ¹	3
One General Education course. ²		3
Credits		22
Semester 4		Credits
FAB 2401	Fabrication & Assembly Practice III ¹	4
LTD 2400	Layout & Template Develop III	2
SSD 2400	Plate & Structural Steel Develop. II ¹	4
WLD 2413	Welding Appl n & Prac'l Skills III ¹	5
WLD 2416	Job Planning & Preparation	2
One General Education course. ²		3
Credits		20
Total Credits		86

¹ Course with Lab Component

² For more information regarding General Education courses, click here (<https://cambriancollege.ca/general-education-electives/>).

Admission requirements

For graduates of the new curriculum (OSS): Ontario Secondary School Diploma (30 credits) or equivalent or mature student status, including:

- Any grade 12 English (C) or (U)
- Any grade 11 mathematics (C), (U), or (M)

Program delivery

2024-2025

Fall term start

SEMESTER 1: Fall 2024
SEMESTER 2: Winter 2025
SEMESTER 3: Fall 2025
SEMESTER 4: Winter 2026

Winter term start

SEMESTER 1: Winter 2025
SEMESTER 2: Spring 2025
SEMESTER 3: Fall 2025
SEMESTER 4: Winter 2026

Registration to practice / additional testing

There is a testing fee that is determined by the type and number of different welding certifications for which the student wishes to test

Specific program pathways

College or university degree opportunities

If you are a graduate of this program, you may continue your studies at a college or university and you may receive credit(s) for your prior college education. Refer to Cambrian's college and university agreement (<https://cambriancollege.ca/supports-services/articulation-agreements/>) details for further information.

Employment opportunities

Multiple career opportunities exist in welding and fabrication in any industry where metal fabrication and maintenance are performed, for example:

- Steel fabrication plants
- Manufacturing
- Construction
- Pulp and paper mills
- Mines
- Refineries
- Trades Unions

Contacts

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INTERNATIONAL ADMISSIONS

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