

# WELDING AND FABRICATION TECHNICIAN (WFTN)

## Ontario College Diploma | 4 semesters | Barrydowne

Working in the College's welding lab, you will take metal fabrication projects from the engineering drawing stage through cutting and forming processes to the welding and inspection phase. You have the option to start your apprenticeship and will also have unique opportunities to put your welding skills into practice by working on real community and applied research projects.

### Program Highlights

- 2 years – 4 semesters
- Co-op Diploma Apprenticeship option
- Opportunities to participate in applied research projects
- Real-world experience using industry-standard equipment in the College's welding lab to take projects from concept to finished product

### 4D Learning Opportunities

Ontario Technological Skills Competition – Each year, select Cambrian Welding students compete in this provincial competition against other college students and apprentices.

Pedestrian bridge for Rotary Park – Students worked alongside industry partner Lopes Mechanical to build a 50-foot long bridge for a park in Sudbury.

Material handling loop – Students helped to build components of an industrial training circuit used by Cambrian's Millwright students.

Nature observation deck for Rotary Park – Students volunteered 900 hours to construct a fully-galvanized metal deck for a park in Sudbury.

### Co-op Diploma Apprenticeship Program Option

The Co-op Diploma Apprenticeship program combines a college diploma and apprenticeship training. The placement for this program is an optional co-op and is not required for you to graduate. You can choose to complete your postsecondary program and graduate with a certificate or diploma without participating in the co-op option. However, if you choose, and qualify, to participate in this optional Co-op Diploma Apprenticeship program, you may become a registered apprentice sponsored by your co-op employer. Through your participation in this program, you will have the opportunity to participate in paid co-op placements while earning a college certificate or diploma. Your academic curriculum, which enables you to receive Level 1, Level 2, or Level 3 Trade School completion from the Ministry of Advanced Education and Skills Development after each successful year of schooling, will be enhanced by the experiences from your co-op placements.

#### Capped Enrolment

#### Quick Links

How to Apply (<http://cambriancollege.ca/apply>)

Skills and Trades Training (<http://cambriancollege.ca/field-of-study/skills-and-trades-training>)

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

## Additional Information

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

**APPLY NOW!** (<http://ontariocolleges.ca/apply>)

## Program Delivery

### 2018-2019

This program will be delivered in the following terms:

#### Fall Term Start

1. **SEMESTER 1** Fall 2018
2. **SEMESTER 2** Winter 2019
3. **SEMESTER 3** Fall 2019
4. **SEMESTER 4** Winter 2020

For specific term start/end dates and other key dates/deadlines, please see the Academic Schedule (<http://cambriancollege.ca/apply/how-to-apply/academic-schedule>) on our website.

## Program of Study

*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
TCA 1101	Trade Math I	3
WLD 1001	Blueprint Reading Drafting I	3
WLD 1003	Metal Trades Practices	3
WLD 1122	Welding Applications I <sup>1</sup>	8
WLD 1131	Welding Processes Technology I	3
ENG 1002	College Communications	3
Term Credits:		23
Semester 2		
FAB 1200	Fabrication Assembly Practices I <sup>1</sup>	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 <sup>1</sup>	4
One of the following General Education course:		3
BUS 1015	Negotiation Labour Relations	3
CET 1003	Cybernation	3
MUS 1009	Rock Music, Culture Technology	3
PSY 1001	Psychology of Evil	3
SCI 1000	Issues and Ethics in Science	3
Term Credits:		21
Semester 3		

ENG 1780	Applied Communication II	2
FAB 2300	Fabrication Assembly Practices II <sup>1</sup>	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 <sup>1</sup>	3
The following General Education course:		3
BUS 1008	Personal Finance	3
Term Credits:		22
<b>Semester 4</b>		
FAB 2401	Fabrication Assembly Practice III <sup>1</sup>	4
LTD 2400	Layout Template Develop III	2
SSD 2400	Plate Structural Steel Develop.II <sup>1</sup>	4
WLD 2413	Welding Appl n Prac'l Skills III <sup>1</sup>	5
WLD 2416	Job Planning Preparation	2
One of the following General Education courses:		3
BUS 1015	Negotiation Labour Relations	3
CET 1003	Cybernation	3
MUS 1009	Rock Music, Culture Technology	3
PSY 1001	Psychology of Evil	3
SCI 1000	Issues and Ethics in Science	3
Term Credits:		20
Total Credits:		86

<sup>1</sup> Course with Lab Component

## Fees

### Tuition and Ancillary Fees

Please see our fees page (<http://cambriancollege.ca/fees>) for the breakdown of tuition and mandatory ancillary fees by program and semester for both domestic and international students

### Books & Supplies

The cost of books and supplies for Year 1 is approximately \$2,200. This is the best information available at the time of publishing to the website and is subject to change.

## Graduate Option

### Employment Opportunities

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

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

## College/University Degree Opportunities

4 Graduates from this program may continue their studies at college/ university and may receive credit for their prior College education.

3 Refer to College/University Agreements (<http://www.cambriancollege.ca/agreements>) for further information.

## Contacts

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