

INDUSTRIAL MECHANICAL MILLWRIGHT TECHNICIAN (IMTN)

Ontario College Diploma | 4 semesters | Barrydowne

Gain the skills and ability to diagnose, install, and maintain plant machinery in a safe and systematic manner, with a high degree of efficiency.

In the College's millwright shop, you will gain hands-on experience working on industrial equipment as you learn to install, repair, and maintain complex industrial mechanical machinery in existing and new operations. In second year, you will build upon your electrical, mechanical, instrumentation, and computer-aided drafting skills while increasing your skills in troubleshooting and repairing industry equipment.

Take advantage of the Co-op Diploma Apprenticeship option, and you'll complete all in-school apprenticeship requirements by the time you graduate – making you job-ready for the many opportunities in every industry from aerospace to food manufacturing to mining.

Program Highlights

- 2 years – 4 semesters
- Co-op Diploma Apprenticeship option
- Unique material handling loop gives you experience installing, troubleshooting, repairing, and maintaining industrial equipment typically found in the mining, refining, forestry, and manufacturing sectors
- Millwright shop includes alignment, machining, precision measuring, and pump stations

4D Learning Opportunities

Ontario Technological Skills Competition – there are opportunities for select Cambrian Millwright students to compete in this provincial competition against other college students and apprentices.

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)

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

Program Delivery

2018-2019

This program will be delivered in the following terms:

Winter Term Start

1. SEMESTER 1 Winter 2019
2. SEMESTER 2 Summer 2019
3. SEMESTER 3 Fall 2019
4. SEMESTER 4 Winter 2020

2019-2020

This program will be delivered in the following terms:

Fall Term Start

1. SEMESTER 1 Fall 2019
2. SEMESTER 2 Winter 2020
3. SEMESTER 3 Fall 2020
4. SEMESTER 4 Winter 2021

Winter Term Start

1. SEMESTER 1 Winter 2020
2. SEMESTER 2 Summer 2020
3. SEMESTER 3 Fall 2020
4. SEMESTER 4 Winter 2021

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
IMM 1116	Tools, Materials & Fasteners ¹	3
IMM 1151	Industrial Indoctrination & Safety	1
IMM 1156	Technical Drawing & Schematics	4
IMM 1160	Precision Measuring Equipment	2
IMM 1177	Millwright Machining I ¹	3
IMM 2411	Rigging and Hoist ¹	4
WLD 1100	Welding I ¹	2
ENG 1002	College Communications	3
	Credits	22
Semester 2		
IMM 1246	Bearing Seals & Lubrication ¹	5

IMM 1251	Power Transmission Systems ¹	5
IMM 1265	Electric & Electronic Controls I ¹	2
IMM 1275	Millwright Machining II ¹	2
IMM 2580	Technical Drawings & Schematics II	2
WLD 1200	Welding II ¹	2
The following General Education course:		3
BUS 1008	Personal Finance	
Credits		21
Semester 3		
ENG 1780	Applied Communication II	2
IMM 1255	Material Handling System ¹	4
IMM 2440	Machine Installation ¹	4
IMM 2450	Fluid Power I ¹	2
IMM 2460	Electrical & Electronic Controls II ¹	2
IMM 2475	Millwright Machining III ¹	2
WLD 2400	Welding III ¹	2
One of the following General Education courses:		3
CET 1003	Cybernation	
MUS 1009	Rock Music, Culture & Technology	
PSY 1001	Psychology of Evil	
SCI 1000	Issues and Ethics in Science	
BUS 1015	Negotiation & Labour Relations	
Credits		21
Semester 4		
CAD 1100	Computer-Aided Drafting I	2
IMM 2446	Pumps, Valves & Piping ¹	5
IMM 2537	Proact. Prevent. & Predictive Maint ¹	2
IMM 2550	Set-up and Use Machine Tools IV ¹	2
IMM 2556	Fluid Power II ¹	3
IMM 2570	Industrial Automated Control ¹	2
IMM 2575	Prime Movers and Machinery ¹	2
WLD 2500	Welding & Fabrication ¹	2
One of the following General Education courses:		3
CET 1003	Cybernation	
BUS 1008	Personal Finance	
MUS 1009	Rock Music, Culture & Technology	
PSY 1001	Psychology of Evil	
SCI 1000	Issues and Ethics in Science	
Credits		23
Total Credits		87

¹ 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 \$2000. This is the best information available at the time of publishing to the website and is subject to change.

Graduate Options

Employment Opportunities

Graduates may find employment in:

- Hydro/nuclear installations
- Mining operations
- Forestry operations
- Manufacturing industry
- Steel industry
- Printing industry
- Pharmaceutical industry

Contacts

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