

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.

Program Highlights

- 2 years – 4 semesters
- Upon successful completion of our program, your diploma equates to the three levels of theory required towards your apprenticeship Certificate of Qualification.
- 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.

Optional Paid Co-op

Our program features an optional, paid co-op directly related to your program of study. During this work-integrated learning experience, you'll apply your skills and knowledge in an actual work environment, giving you industry training that you can showcase to potential employers when you graduate.

You will be required to complete work preparation sessions prior to the work term to help you develop an industry-specific resume and effective interviewing skills. Cambrian's Career Centre (<https://cambriancollege.ca/campus-life/career-centre/>) will support you through this process and will also help you to source and apply for placement opportunities.

International students: Study permits prohibit international students from participating in optional co-ops. However, if you are an international student and are interested in work-integrated learning opportunities, visit Cambrian's Career Centre (<https://cambriancollege.ca/campus-life/career-centre/>) to discuss available options with a career advisor. Opportunities may include volunteer positions or part-time or full-time jobs during academic breaks and/or during the academic year.

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

APPLY NOW! (<https://www.ontariocolleges.ca/en/apply-now/>)

Program Delivery

2021-2022

This program will be delivered in the following terms:

Winter Term Start

1. SEMESTER 1 Winter 2022
2. SEMESTER 2 Spring 2022
3. SEMESTER 3 Fall 2022
4. SEMESTER 4 Winter 2023

2022-2023

This program will be delivered in the following terms:

Fall Term Start

1. SEMESTER 1 Fall 2022
2. SEMESTER 2 Winter 2023
3. SEMESTER 3 Fall 2023
4. SEMESTER 4 Winter 2024

Winter Term Start

1. SEMESTER 1 Winter 2023
2. SEMESTER 2 Spring 2023
3. SEMESTER 3 Fall 2023
4. SEMESTER 4 Winter 2024

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 for 2022-23 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
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
One General Education course. ²		3
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 General Education course. ²		3
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	2
WLD 2500	Welding & Fabrication ¹	2
One General Education course. ²		3
Credits		23
Total Credits		87

¹ Course with lab component

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

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 are prepared for employment opportunities in:

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

College/University Degree Opportunities

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

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

Contacts

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