

HEAVY EQUIPMENT TECHNICIAN (HDTN)

Ontario College Diploma | 4 semesters | Barrydowne

In Sudbury, we know mining and we know Heavy Equipment!

Whether you want to work as a mechanic in the mines or in construction, you must start with the basics; and just like industry, we always start with safety. Working with and around Heavy Equipment is about a culture of safety, to recognize potentially dangerous conditions and situations and avoid them; we strongly support that way of thinking at Cambrian College.

There is also so much diversity in this trade, from basic maintenance, brakes, engine repairs and hydraulics, to electronics and autonomous vehicles; you have so many opportunities to find a career in something that is exciting, challenging and rewarding.

We work with our industry partners to focus your learning on what industry needs to help you be successful in securing a start in your career and to give you the skills to be able to tackle many challenges in life; because as a technician you have been trained to find solutions.

We follow the Ontario apprenticeship training standards so you be sure to be getting the right training for the trade to be ready to start your career as a Heavy Equipment Technician apprentice upon graduation.

Program Highlights

- 2 years – 4 semesters
- Upon successful completion of our program, your diploma equates to three levels of theory required towards your apprenticeship Certificate of Qualification.
- Work on off-road heavy equipment such as loaders, bulldozers, trucks, and various components like engines, transmissions, brake systems, fuel systems, hydraulic systems found in our heavy equipment shop.
- Enhanced teaching and learning techniques to develop your critical thinking skills so that you are ready to take on a task from the start to its completion.
- Graduates of this program can come back for a third year and complete the second year of the Truck and Coach Technician program and receive a diploma in that program as well.

4D Learning Opportunities

Ontario Technological Skills Competition – Each year, select Cambrian Heavy Equipment students 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

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
ELC 1120	Electrical & Electronics I ¹	4
HDM 1161	Trade Practices & Applications I ¹	5

HDM 1162	Trade Practices II	4
HDM 1170	Diesel Engines ¹	4
MTH 1010	Trade Math I	3
Credits		20
Semester 2		
HDM 1221	Hydraulics ¹	4
ENG 1002	College Communications	3
HDM 1230	Fuel Systems ¹	4
SSB 1100	Suspen/Steer/Brake Sys I Pneumatics ¹	4
PWT 1210	Power Train Systems ¹	4
One General Education course. ²		3
Credits		22
Semester 3		
ELC 2300	Electrical & Electronics II ¹	4
ENG 1780	Applied Communication II	2
HDM 2370	Diesel Engines II	4
HDM 2371	Heavy Duty Brakes	4
HYS 2300	Hydraulic Systems I ¹	3
One General Education course. ²		3
Credits		20
Semester 4		
DFS 2402	Diesel Fuel Injection Systems	4
ELC 2400	Electrical & Electronics III ¹	5
HYS 2400	Hydraulic Systems II ¹	3
PWT 2401	Power Train Systems II	4
One General Education course. ²		3
Credits		19
Total Credits		81

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 \$1700. 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 as apprentices in the forestry, mining, and construction industries as well as heavy equipment manufacturing or in truck shops.

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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INTERNATIONAL ADMISSION

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