

HEAVY EQUIPMENT TECHNICIAN (HDTN)

Cambrian's heavy equipment program produces mechanics ready for industry

With extensive heavy equipment shop instruction from our expert faculty, you'll work on powerful off-road vehicles such as loaders, bulldozers, and scoop trams, always navigating a culture of safety. As a mechanic in the mining or construction industries, this diverse trade provides a wealth of opportunities to service heavy equipment, from basic maintenance, brakes, engine repairs, and hydraulics to electrical and electronics.

Our program features an optional, paid co-op directly related to your program of study where you'll apply your skills in an actual work environment. Required work preparation sessions help you develop an industry-specific résumé and effective interviewing skills. We collaborate with industry partners to focus on in-demand skills so you can start your career upon graduation.

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

Program highlights

- Diploma equates to 3 levels of required theory towards your apprenticeship Certificate of Qualification
- Optional paid co-op to gain industry training
- Opportunity for select students to participate in the Ontario Technological Skills Competition
- Complete a second diploma in Motive Power Technician – Truck and Coach in just 1 year
- 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
ELC 1120	Electrical & Electronics I ¹	4
HDM 1161	Trade Practices & Applications I ¹	5
HDM 1170	Diesel Engines ¹	4
MTH 1010	Trade Math I	3
HDM 1221	Hydraulics	4
	Credits	20
Semester 2		
ENG 1002	College Communications	3
HDM 1162	Trade Practices II	4
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-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

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

Graduates may find employment as apprentices in the forestry, mining, and construction industries as well as heavy equipment manufacturing or in truck shops.

Contacts

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INTERNATIONAL ADMISSIONS

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