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 <u>must</u> 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	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

	Total Credits	81
	Credits	19
One General Education course. ²		3
PWT 2401	Power Train Systems II	4
HYS 2400	Hydraulic Systems II ¹	3
ELC 2400	Electrical & Electronics III ¹	5
DFS 2402	Diesel Fuel Injection Systems	4
Semester 4		
	Credits	20
One General Education course. ²		3
HYS 2300	Hydraulic Systems I ¹	3
HDM 2371	Heavy Duty Brakes	4
HDM 2370	Diesel Engines II	4
ENG 1780	Applied Communication II	2
ELC 2300	Electrical & Electronics II ¹	4

¹ Course with Lab Component

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

Registration to practice / additional testing

- After first year, you will be certified to work at entry-level industry positions after successfully challenging the:
 - · Gas Technician 3 TSSA exam
 - · Oil Burner Technician 3 TSSA exam
 - · Gas Pipe Fitter TSSA exam (Optional)
- Upon completion of second year and successfully challenging the Gas Technician 2 and Oil Burner Technician 2 TSSA exams you'll be fully certified enter the workforce as a Heating Systems Technician

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

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

Art Pringle

Program Coordinator 705-566-8101, ext 6240 arthur.pringle@cambriancollege.ca

INTERNATIONAL ADMISSIONS

mailboxadmissions@cambriancollege.ca