

# 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 resume 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 three levels of required theory towards your apprenticeship Certificate of Qualification
- Optional paid co-op to gain industry training
- Complete a second diploma in Motive Power Technician – Truck and Coach in just one year
- Opportunity for select students to participate in the Skills Ontario Competition

## Program of study for 2025-26 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 <sup>1</sup>	4
HDM 1161	Trade Practices & Applications I <sup>1</sup>	5
HDM 1170	Diesel Engines <sup>1</sup>	4
MTH 1010	Trade Math I	3
HDM 1221	Hydraulics	4
<b>Credits</b>		<b>20</b>
Semester 2		
ENG 1002	College Communications	3
HDM 1162	Trade Practices II	4
HDM 1230	Fuel Systems <sup>1</sup>	4
SSB 1100	Suspen/Steer/Brake Sys I Pneumatics <sup>1</sup>	4
PWT 1210	Power Train Systems <sup>1</sup>	4
One General Education course. <sup>2</sup>		3
<b>Credits</b>		<b>22</b>
Semester 3		
ELC 2300	Electrical & Electronics II <sup>1</sup>	4
ENG 1765	Workplace Communication	3

HDM 2370	Diesel Engines II	4
HDM 2371	Heavy Duty Brakes	4
HYS 2300	Hydraulic Systems I <sup>1</sup>	3
One General Education course. <sup>2</sup>		3
<b>Credits</b>		<b>21</b>
Semester 4		
DFS 2402	Diesel Fuel Injection Systems	4
ELC 2400	Electrical & Electronics III <sup>1</sup>	5
HYS 2400	Hydraulic Systems II <sup>1</sup>	3
PWT 2401	Power Train Systems II	4
One General Education course. <sup>2</sup>		3
<b>Credits</b>		<b>19</b>
<b>Total Credits</b>		<b>82</b>

<sup>1</sup> Course with Lab Component

<sup>2</sup> 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

### 2025-2026

#### Fall term start

SEMESTER 1: Fall 2025  
SEMESTER 2: Winter 2026  
SEMESTER 3: Fall 2026  
SEMESTER 4: Winter 2027

#### Winter term start

SEMESTER 1: Winter 2026  
SEMESTER 2: Spring 2026  
SEMESTER 3: Fall 2026  
SEMESTER 4: Winter 2027

## 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/universities-in-canada/>) details for further information.

## Employment opportunities

Graduates may find employment as apprentices in:

- Forestry, mining, and construction industries
- Heavy equipment manufacturing
- Truck shops

## Contacts

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**INTERNATIONAL ADMISSIONS**

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