

MOTIVE POWER TECHNICIAN - TRUCK AND COACH (TCTN)

Keep our roads safe and our critical supply chain moving.

You'll love your job, learn something new every day, and develop skills that will last a lifetime as a truck and coach technician. Our experienced professors are passionate about their trade. Our program follows the Ontario College of Trades apprenticeship training standard and features an optional, paid co-op where you'll apply your skills in an actual work environment.

First, you'll learn the fundamentals of electrical systems, hydraulic systems, and brake systems for heavy equipment, as well as diesel engines and power trains. Then you'll focus on the particular challenges of being a truck and coach technician. You'll tackle new technology and earn the skills that our industry partners are looking for. Hands-on training in the lab prepares you to service trucks, buses, trailers, and related equipment while taking personal pride in your work.

Program highlights

- Capped enrolment
- 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 Skills Competition
- Complete a second diploma in Heavy Equipment Technician in just 1 year

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		
HDM 1230	Fuel Systems ¹	4
HDM 1162	Trade Practices II	4
SSB 1100	Suspen/Steer/Brake Sys I Pneumatics ¹	4
PWT 1210	Power Train Systems ¹	4
ENG 1002	College Communications	3
One General Education course. ²		3
Credits		22
Semester 3		
ENG 1780	Applied Communication II	2

TCT 1000	Fuel Systems II ¹	7
TCT 1001	Steering Suspension and Brakes ¹	7
TCT 1002	Drive Train Systems ¹	6
One General Education course. ²		3
Credits		25
Semester 4		
TCT 1003	Trade Practices ¹	6
TCT 1004	Electrical/Electronics ¹	7
TCT 1005	Engine Systems ¹	7
One General Education course. ²		3
Credits		23
Total Credits		90

¹ Course with Lab Component

² For more information regarding General Education courses, click here (<https://cambriancollege.ca/general-education-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 industry or may find employment in related truck and coach component overhaul and maintenance shops.

Contacts

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INTERNATIONAL ADMISSIONS

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