

# MOTIVE POWER TECHNICIAN - TRUCK AND COACH (TCTN)

## Ontario College Diploma | 4 semesters | Barrydowne

After learning the basic fundamentals of diesel engines, power trains, electrical systems, hydraulic systems, and brake systems for heavy equipment in first year, you'll undertake training in second year that will enable you to meet the challenges of the truck and coach trade. In-class work is complemented by extensive shop training where you will be expected to develop a high standard of craftsmanship, problem-solving skills, and personal pride in the trade.

### Program Highlights

- 2 years – 4 semesters
- Co-op Diploma Apprenticeship option
- Work on scoop trams, trucks, coach buses, and other types of equipment in our heavy equipment shop

### Co-op Diploma Apprenticeship Program Option

The Co-op Diploma Apprenticeship program combines a college diploma and apprenticeship training. The placement for this program is an optional co-op and is not required for you to graduate. You can choose to complete your postsecondary program and graduate with a certificate or diploma without participating in the co-op option. However, if you choose, and qualify, to participate in this optional Co-op Diploma Apprenticeship program, you may become a registered apprentice sponsored by your co-op employer. Through your participation in this program, you will have the opportunity to participate in paid co-op placements while earning a college certificate or diploma. Your academic curriculum, which enables you to receive Level 1, Level 2, or Level 3 Trade School completion from the Ministry of Advanced Education and Skills Development after each successful year of schooling, will be enhanced by the experiences from your co-op placements.

#### 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), (U), or (M)
- Any grade 11 mathematics (C), (U), or (M)

**APPLY NOW!** (<http://ontariocolleges.ca/apply>)

### Program Delivery

#### 2018-2019

This program will be delivered in the following terms:

#### Fall Term Start

1. SEMESTER 1 Fall 2018
2. SEMESTER 2 Winter 2019
3. SEMESTER 3 Fall 2019
4. SEMESTER 4 Winter 2020

#### Winter Term Start

1. SEMESTER 1 Winter 2019
2. SEMESTER 2 Spring 2019
3. SEMESTER 3 Fall 2019
4. SEMESTER 4 Winter 2020

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

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 1140	Diesel Engines I <sup>1</sup>	2
HDM 1150	Diesel Engines II <sup>1</sup>	3
HDM 1161	Trade Practices Applications I <sup>1</sup>	5
TCA 1100	Trade Math I <sup>1</sup>	2
WLD 1105	Welding and Oxyacetylene <sup>1</sup>	2
ENG 1002	College Communications	3
Term Credits:		21
Semester 2		
HDM 1221	Hydraulics <sup>1</sup>	4
HDM 1230	Fuels Systems <sup>1</sup>	4
PWT 1100	Power Train I <sup>1</sup>	3
PWT 1200	Power Train Systems II <sup>1</sup>	3
SSB 1100	Suspen/Steer/Brake Sys I Pneumatics <sup>1</sup>	4
One of the following General Education courses:		3
BUS 1015	Negotiation Labour Relations	3
CET 1003	Cybernation	3
MUS 1009	Rock Music, Culture Technology	3
PSY 1001	Psychology of Evil	3
SCI 1000	Issues and Ethics in Science	3
Term Credits:		21
Semester 3		
ENG 1780	Applied Communication II	2
TCT 1000	Fuel Systems II <sup>1</sup>	7
TCT 1001	Steering, Suspension Brake S <sup>1</sup>	7
TCT 1002	Drive Train Systems <sup>1</sup>	6
The following General Education course:		3

BUS 1008	Personal Finance	3
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	Term Credits:	25
<b>Semester 4</b>		
TCT 1003	Trade Practices <sup>1</sup>	6
TCT 1004	Electrical/Electronics <sup>1</sup>	7
TCT 1005	Engine Systems <sup>1</sup>	7
One of the following General Education courses:		3
BUS 1015	Negotiation Labour Relations	3
CET 1003	Cybernation	3
MUS 1009	Rock Music, Culture Technology	3
PSY 1001	Psychology of Evil	3
SCI 1000	Issues and Ethics in Science	3
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	Term Credits:	23
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	Total Credits:	90

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

## 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 \$500. 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 trucking industry or may find employment in related truck component overhaul shops.

## Contacts

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Program Coordinator

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