

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 ¹ | 4 |
| HDM 1140 | Diesel Engines I ¹ | 2 |
| HDM 1150 | Diesel Engines II ¹ | 3 |
| HDM 1161 | Trade Practices Applications I ¹ | 5 |
| TCA 1100 | Trade Math I ¹ | 2 |
| WLD 1105 | Welding and Oxyacetylene ¹ | 2 |
| ENG 1002 | College Communications | 3 |
| Term Credits: | | 21 |
| Semester 2 | | |
| HDM 1221 | Hydraulics ¹ | 4 |
| HDM 1230 | Fuels Systems ¹ | 4 |
| PWT 1100 | Power Train I ¹ | 3 |
| PWT 1200 | Power Train Systems II ¹ | 3 |
| SSB 1100 | Suspen/Steer/Brake Sys I Pneumatics ¹ | 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 ¹ | 7 |
| TCT 1001 | Steering, Suspension Brake S ¹ | 7 |
| TCT 1002 | Drive Train Systems ¹ | 6 |
| The following General Education course: | | 3 |

| | | |
|---|-------------------------------------|----|
| BUS 1008 | Personal Finance | 3 |
| <hr/> | | |
| | Term Credits: | 25 |
| Semester 4 | | |
| TCT 1003 | Trade Practices ¹ | 6 |
| TCT 1004 | Electrical/Electronics ¹ | 7 |
| TCT 1005 | Engine Systems ¹ | 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 |
| <hr/> | | |
| | Term Credits: | 23 |
| <hr/> | | |
| | Total Credits: | 90 |

¹ 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

Robert Huzij

Program Coordinator

705-566-8101, ext 6437

robert.huzij@cambriancollege.ca