

# MOTIVE POWER TECHNICIAN - SERVICE AND MANAGEMENT (VMTN)

## Ontario College Diploma | 4 semesters | Barrydowne

After an introduction to basic work practices and training on the proper use of hand tools, pneumatic tools, and shop equipment, you will learn how to diagnose and perform quality repairs for the various sub-systems of vehicles, including:

- Computer systems
- Emissions systems
- Braking systems
- Fuel injection systems
- Heating and cooling systems
- Manual and four-wheel drive transmissions
- And more

Courses will be a 50/50 split between hands-on and classroom training.

Special focus will be placed on electrical and electronic components throughout the program while performing diagnostic repairs.

### Program Highlights

- 2 year – 4 semesters
- Courses delivered 50% in the classroom and 50% in a shop environment
- Hands-on training in our fully-functioning automotive shop where you'll conduct service repairs on all sub-systems found on today's modern vehicles
- As a graduate, you'll have completed apprenticeship theory levels 1, 2, and 3
- Educational partnership with ConsuLab

### 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)

Recommended:

- Automotive-related courses

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

### Program Delivery

#### 2017-2018

This program will be delivered in the following terms:

##### Winter Term Start

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

#### 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

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
APP 1101	Trades Practice Applications I <sup>1</sup>	6
DTS 1141	Drive Train Systems I <sup>1</sup>	5
MTH 1205	Computer Methods - Trades Software <sup>1</sup>	2
SSB 1151	Steering/Suspension/Brakes I <sup>1</sup>	6
ENG 1002	College Communications	3
Term Credits:		22
Semester 2		
ELC 1217	Electrical Electronics I <sup>1</sup>	6
FLS 1000	Basic Fuel System Fuel Manag <sup>1</sup>	7
MOT 1000	Gas Engines I <sup>1</sup>	5

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:	21
<b>Semester 3</b>		
APP 1000	Repairer s Rights and Responsibilities <sup>1</sup>	2
ELC 2303	Electrical Systems Electronics <sup>1</sup>	8
ENG 1780	Applied Communication II	2
MOT 1002	Gas Engines II <sup>1</sup>	3
PWT 2305	Power Train Controls II <sup>1</sup>	4
The following General Education course:		3
BUS 1008	Personal Finance	3
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	Term Credits:	22
<b>Semester 4</b>		
DTS 2401	Drive Train System II <sup>1</sup>	5
EFI 2401	Electronic Fuel Injection Systems <sup>1</sup>	5
ICE 1000	Air Conditioning Systems 4RS <sup>1</sup>	4
PRS 1430	Personal Relations Skill Attitude <sup>1</sup>	2
SSB 1411	Steering/Suspension/ABS Brakes <sup>1</sup>	4
One of the following General Education course:		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:	88

<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 \$3,000. 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:

- General automotive service technicians

- Specialty technicians (e.g., electrical/driveability, transmission)
- Service advisors/consultants
- Automotive parts/retail salespersons
- Manufacturing/fabricating/custom work employees

## College/University Degree Opportunities

Graduates from this program may continue their studies at college/ university and may receive credit for their prior College education.

Refer to College/University Agreements (<http://www.cambriancollege.ca/agreements>) for further information.

## Contacts

### John Weiss

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