

# 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
- Drive train systems
- Steering and suspension systems
- Power train control systems
- And more

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

Special focus will be placed on electrical systems and electronic components throughout the program while performing service and or diagnostic repairs according to manufactures procedures.

### 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
- Educational partnership with ConsuLab
- Upon successful completion of our program, your diploma equates to the three levels of theory required towards your apprenticeship Certificate of Qualification.

### Optional Paid Co-op

Our program features an optional, paid co-op directly related to your program of study. During this work-integrated learning experience, you'll apply your skills and knowledge in an actual work environment, giving you industry training that you can showcase to potential employers when you graduate.

You will be required to complete work preparation sessions prior to the work term to help you develop an industry-specific resume and effective interviewing skills. Cambrian's Career Centre (<https://cambriancollege.ca/campus-life/career-centre/>) will support you through this process and will also help you to source and apply for placement opportunities.

International students: Study permits prohibit international students from participating in optional co-ops. However, if you are an international student and are interested in work-integrated learning opportunities, visit Cambrian's Career Centre (<https://cambriancollege.ca/campus->

[life/career-centre/](#)) to discuss available options with a career advisor. Opportunities may include volunteer positions or part-time or full-time jobs during academic breaks and/or during the academic year.

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

Recommended:

- Automotive-related courses

APPLY NOW! (<https://www.ontariocolleges.ca/en/apply-now/>)

## Program Delivery

### 2022-2023

This program will be delivered in the following terms:

#### Fall Term Start

1. SEMESTER 1 Fall 2022
2. SEMESTER 2 Winter 2023
3. SEMESTER 3 Fall 2023
4. SEMESTER 4 Winter 2024

#### Winter Term Start

1. SEMESTER 1 Winter 2023
2. SEMESTER 2 Spring 2023
3. SEMESTER 3 Fall 2023
4. SEMESTER 4 Winter 2024

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 for 2022-23 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
APP 1101	Trades Practice & Applications I <sup>1</sup>	6
SID 1205		
SSB 1151	Steering/Suspension/Brakes I <sup>1</sup>	6
DTS 1141	Drive Train Systems I <sup>1</sup>	5
ENG 1002	College Communications	3
<b>Credits</b>		<b>20</b>
Semester 2		Credits
ELC 1217	Electrical & Electronics I <sup>1</sup>	6

MOT 1000	Gas Engines I <sup>1</sup>	5
FLS 1000	Basic Fuel System & Fuel Manag <sup>1</sup>	7
One General Education course. <sup>2</sup>		3
<b>Credits</b>		<b>21</b>
<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
One General Education course. <sup>2</sup>		3
<b>Credits</b>		<b>22</b>
<b>Semester 4</b>		
DTS 2401	Drive Train System II <sup>1</sup>	5
EFI 2401	Electronic Fuel Injection Systems <sup>1</sup>	5
ACS 1000		
PRS 1430	Personal Relations Skill & Attitude <sup>1</sup>	2
SSB 1411	Steering/Suspension/ABS Brakes <sup>1</sup>	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-education-electives/>).

## 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, tool rental, PPE and supplies for Year 1 is approximately \$1,500. We now have a tool rental program to help reduce costs. Students wishing to purchase their own tools should budget for 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 are prepared for employment opportunities 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

Program Coordinator  
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### INTERNATIONAL ADMISSION

[mailboxadmissions@cambriancollege.ca](mailto:mailboxadmissions@cambriancollege.ca)