

HEATING, VENTILATION & AIR CONDITIONING TECHNICIAN (HVTN)

Ontario College Diploma | 4 semesters | Barrydowne

With Cambrian's Technical Standards and Safety Authority (TSSA) accredited program, you'll prepare to challenge TSSA exams for Natural Gas Technician and Oil Burner Technician certifications. Theory and practical lab training are combined to develop a solid understanding of heating systems (natural gas, propane, and fuel oil) as well as air conditioning, refrigeration principles, sheet metal fabrication, and heat loss/heat gain design considerations. You'll also be introduced to the skills required for the installation, service, and troubleshooting of residential and light commercial heating and cooling applications.

Program Highlights

- 2 years – 4 semesters
- Program accredited by the Technical Standards and Safety Authority (TSSA)
- One of only 2 colleges in Ontario to offer Oil Burner Technician training
- Hands-on training in the College's state-of-the-art HVAC labs
- After first year, you will be certified to work at entry-level industry positions after successfully challenging the:
 - Gas Technician 3 TSSA exam
 - Oil Burner Technician 3 TSSA exam
 - Gas Pipe Fitter TSSA exam (Optional)
- Upon completion of second year and successfully challenging the Gas Technician 2 and Oil Burner Technician 2 TSSA exams you'll be fully certified enter the workforce as a Heating Systems Technician

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:

Winter Term Start

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

2019-2020

This program will be delivered in the following terms:

Fall Term Start

1. SEMESTER 1 Fall 2019
2. SEMESTER 2 Winter 2020
3. SEMESTER 3 Fall 2020
4. SEMESTER 4 Winter 2021

Winter Term Start

1. SEMESTER 1 Winter 2020
2. SEMESTER 2 Summer 2020
3. SEMESTER 3 Fall 2020
4. SEMESTER 4 Winter 2021

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
GAF 1100	Gas Technician III ¹	12
HVA 1100	Basic Sheet Metal ¹	2
RAC 1100	Refrigeration I ¹	4
ENG 1002	College Communications	3
Credits		21

Semester 2		Credits
GAF 1200	Gas Technician II (Part I) ¹	6
OBU 1201	Oil Burner Technician III ¹	8
RAC 1200	Refrigeration II ¹	4
The following General Education course:		3
BUS 1008	Personal Finance	
Credits		21

Semester 3		Credits
ENG 1780	Applied Communication II	2
GAF 2300	Gas Technician II (Part II) ¹	8
HLG 2300	Heat Loss/Heat Gain ¹	4
OBU 2300	Oil Burner Technician II ¹	6
One of the following General Education courses:		3
BUS 1015	Negotiation & Labour Relations	
CET 1003	Cybernation	
MUS 1009	Rock Music, Culture & Technology	
PSY 1001	Psychology of Evil	

SCI 1000	Issues and Ethics in Science	
	Credits	23
Semester 4		
GAF 2402	Gas Technician II (Part III) ¹	12
HVA 2400	Air Conditioning & Heat Pumps ¹	4
HVA 2430	Advanced Hydronics ¹	2
One of the following General Education courses:		3
BUS 1015	Negotiation & Labour Relations	
CET 1003	Cybernation	
MUS 1009	Rock Music, Culture & Technology	
PSY 1001	Psychology of Evil	
SCI 1000	Issues and Ethics in Science	
	Credits	21
	Total Credits	86

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 \$1,400. This is the best information available at the time of publishing to the website and is subject to change.

Graduate Options

Employment Opportunities

Graduates who have met TSSA certification requirements may find employment as natural gas, propane, and oil burner technicians and may also pursue OCOT (Ontario College of Trades) journey person apprenticeship within the refrigeration, air conditioning, plumbing, or sheet metal fabrication industries. Graduates may also be employed as sales or maintenance personnel in commercial, institutional, and industrial areas.

Contacts

Darryl Squires

Program Coordinator

705-566-8101, ext 7829

darryl.squires@cambriancollege.ca