

POWER ENGINEERING TECHNIQUES (PETQ)

Ontario College Certificate | 2 semesters | Barrydowne

A registered 2nd Class power plant training facility on campus. Curriculum that is endorsed by the Technical Standards and Safety Authority (TSSA). A unique program located in northern Ontario. Just a few of the reasons Cambrian's Power Engineering Techniques program is in high demand.

You'll be introduced to all aspects of power plant operation and maintenance, both theoretical and practical, at the 4th Class level. Theoretical concepts discussed in class are further explained and illustrated in the College's Power Plant Training Facility - a registered 2nd Class plant. Here is where you will help to operate and maintain working equipment in a safe and efficient manner. Subjects of instruction closely follow the Standardized Power Engineers Examination Committee (SOPEEC) syllabus and help prepare you to challenge the Technical Standards and Safety Authority (TSSA) examinations required for 4th Class certification as an Operating Engineer.

This program has been officially recognized and approved by the Technical Standards and Safety Authority. This will grant a qualifying time reduction to you upon successful completion of the program.

Program Highlights

- 1 year – 2 semesters
- Program endorsed by the Technical Standards and Safety Authority (TSSA)
- One of only a few colleges in Ontario to offer this program
- Hands-on training in Cambrian's 2nd Class power plant
- Grads are eligible to challenge the TSSA examinations for 4th Class certification as an Operating Engineer

Capped Enrolment Quick Links

How to Apply (<http://cambriancollege.ca/apply>)

Engineering Technology (<http://cambriancollege.ca/field-of-study/engineering-technology>)

Admission Requirements

For graduates of the new curriculum (OSSD): Ontario Secondary School Diploma (30 credits) or equivalent or mature student status, including:

- Any grade 12 English (C), (U), or (M)
- Any grade 12 mathematics (C) or (U) (MCT4C is highly recommended)
- Any grade 11 or 12 chemistry or physics (C), (U), or (M)

Recommended:

- Grade 12 technological design or manufacturing technology course (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

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
PEG 1006	Nuclear and Alternate Energy	3
PEG 1007	Boilers Auxiliaries I	4
PEG 1108	Power Plant Operation I ¹	11
PEG 1115	Applied Science	3
PEG 1126	Safety Administration I	2
PEG 1225	Electricity Control Systems I	3
Term Credits:		26
Semester 2		
ENG 1002	College Communications	3
PEG 1220	Heating, Refrig./Gas Compression I	3
PEG 1231	Power Plant Operations II	11
PEG 1008	Prime Movers I	4
PEG 1215	Applied Chemistry I	2
The following General Education course:		3
BUS 1008	Personal Finance	3
Term Credits:		26
Total Credits:		52

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 \$2,000. This is the best information available at the time of publishing to the website and is subject to change.

Graduate Options

Furthering Your Studies

Graduates of Cambrian's one year Power Engineering Techniques program or its equivalent, who also have their 4th Class Certificate of Qualification in good standing with TSSA, may apply to

enter directly into Semester 3 of the Power Engineering Technician (PWTN) or Technology (PWTY) programs. This is a competitive process.

Employment Opportunities

Graduates may find employment in industrial and non-industrial settings having power plants or boiler rooms registered by the government and requiring the services of a Certified Operating Engineer. These settings may be located in:

- Manufacturing plants
- Cogeneration facilities
- Refrigeration plants
- Mining operations
- Pulp and paper mills
- Hospitals
- Electrical generation plants

Also, many non-registered plants located in high-rise office buildings and other institutions employ power engineers to operate and maintain their complex heating and cooling systems.

Contacts

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