

POWERLINE TECHNICIAN (PLTN)

Energize the world with a safety-focused powerline technician diploma.

Be part of the longest-running powerline program in the province, staffed by a faculty experienced in the industry. Gain the real-world skills to diagnose intricate electrical problems in a fast-paced and dynamic environment with our on-campus outdoor pole fields, including the Gatien Training Field.

You'll learn skills in the drafting, design, construction, maintenance, and repair of powerline systems. With a focus on safety, you'll cover overhead and underground distribution, electrical power stations, transmission systems, communication networks, and more. You'll have an option to begin an apprenticeship with a competitive salary while earning your diploma.

Program highlights

- Co-op apprenticeship option
- Year-round training in the powerline garage and outdoor pole fields
- Partnership with the Infrastructure Health and Safety Association (ISHA) allows you to take industry certificate courses prior to starting co-op
- Networking opportunities with industry members
- Opportunity for select students to participate in the Ontario Skills Competition

Program of study for 2024-25 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
CAD 1100	Computer-Aided Drafting I	2
ELC 1130	Electrical Theory and Wiring I ¹	6
MTH 1152	Electrical Math I	3
HRP 1002	Job Search and Soft Skills	2
PLT 1100	Powerline Theory and Construction I ¹	8
ENG 1002	College Communications	3
Credits		24
Semester 2		Credits
ELC 1230	Electrical Theory and Wiring II ¹	6
MTH 1252	Electrical Math II	3
PLT 1101	Workplace Safety And The Law	2
PLT 1200	Powerline Theory & Construction II ¹	8
One General Education course. ²		3
Credits		22
Semester 3		Credits
ELC 2335	Electrical Theory and Wiring III ¹	6
ENG 1780	Applied Communication II	2
MTH 2352	Electrical Math III	3
PLT 2300	Powerline Theory & Construction III ¹	8

PLT 2350	Computer Aided Drafting II	2
One General Education course. ²		3
Credits		24
Semester 4		Credits
PLT 2400	Powerline Theory & Construction IV ¹	8
PLT 2405	Transformer & Metering Theory ¹	2
PLT 1102	Electrical and Distribution Systems	6
PRT 1003	Physics for Trades and Tech	3
One General Education course. ²		3
Credits		22
Total Credits		92

¹ Course with Lab Component

² For more information regarding General Education courses, click here (<https://cambriancollege.ca/general-electives/>).

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 12 mathematics (C) or (U) (MCT4C is highly recommended)

Additional admission requirements

Recommendations

- Any grade 11 (U) or grade 12 (U) or (C) chemistry or physics or any grade 11 or 12 technical course (C), (U), or (M)

Program delivery

2023-2024

Spring term start

SEMESTER 1: Spring 2024
SEMESTER 2: Fall 2024
SEMESTER 3: Spring 2025
SEMESTER 4: Fall 2025

2024-2025

Fall term start

SEMESTER 1: Fall 2024
SEMESTER 2: Winter 2025
SEMESTER 3: Fall 2025
SEMESTER 4: Winter 2026

Winter term start

SEMESTER 1: Winter 2025
SEMESTER 2: Spring 2025
SEMESTER 3: Winter 2026
SEMESTER 4: Spring 2026

Specific program pathways

College or university degree opportunities

If you are a graduate of this program, you may continue your studies at a college or university and you may receive credit(s) for your prior college education. Refer to Cambrian's college and university agreement (<https://>

cambriancollege.ca/supports-services/articulation-agreements/) details for further information.

Employment opportunities

A recent study by the Canadian Electrical Sector indicates that over the next nine years, one third of the employees in that sector will be retiring, creating a shortfall of between 1840 and 3542 employees. Graduates of this program may find employment with:

- Engineering companies
- Contractors
- Equipment suppliers
- Utility companies

Contacts

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INTERNATIONAL ADMISSIONS

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