

# WIND TURBINE TECHNICIAN

Program Office: 403.320.3411 • [tradeslc@lethbridgecollege.ca](mailto:tradeslc@lethbridgecollege.ca)

Harness the wind to power your future in our Wind Turbine Technician program, a nationally recognized program designed to meet the international certification standard and give you the skills and experience needed to succeed in one of the fastest growing technologies in the world.

In under one year, you'll learn from instructors with experience in the industry, work on actual wind turbine components like our 309,000-pound nacelle, scale the training tower that's located right on campus. Focused on safety, the Wind Turbine Technician program allows you to earn numerous safety certificates.

## Your Investment

Program fees will vary. To view fee information for your program, go to [lethbridgecollege.ca/programs](https://lethbridgecollege.ca/programs) (<https://lethbridgecollege.ca/programs/>) and select your program.

## Mobile Learning Program

This is a Mobile Learning Program that requires students to supply their own device with required minimum specifications.

Go to [www.lethbridgecollege.ca/mobilelearning](https://www.lethbridgecollege.ca/mobilelearning) (<https://www.lethbridgecollege.ca/mobilelearning/>) for additional information.

Note: Chromebook is not compatible with the WTT software. We recommend a Windows based laptop for optimal functionality with our programs.

## Graduation

Upon successful completion of all program requirements, students are awarded a Wind Turbine Technician certificate.

## ADMISSIONS

New applicants are accepted into the Wind Turbine Technician program in the Fall (September) and Winter (January) terms.

## General Admissions Requirements

All applicants must meet the general admission requirements for Lethbridge College programs, as indicated in the Admission section of this calendar.

## Alternate Admission

Alternate admission applicants must successfully complete the Alberta Apprenticeship first period Electrical pre-entrance exam with a minimum grade of 70%.

## Non-Academic Requirements

Students are to supply the following program-approved personal safety equipment:

- coveralls or work clothes
- steel-toed boots with ankle covered
- safety glasses
- tight-fitting work gloves

## Medical Requirements

This program requires applicants to be in good physical condition. Applicants must be able to perform physical duties such as climbing ladders of 60 to 125 meters in height, lifting items up to 22.5 kg (50 lbs.) in weight, working at heights and in confined spaces.

## CURRICULUM

Course	Title	Credits
<b>Year 1</b>		
<b>Term I</b>		
WHS-1110	Workplace Safety	3
WTT-1100	Introductory Electrical Theory	3
WTT-1103	DC Laboratory Fundamentals	3
WTT-1104	Canadian Electrical Code and Blueprint Reading	3
WTT-1110	Wind Turbine Safety I	3
WTT-1114	Wind Turbine Mechanical	3
WTT-1115	Wind Energy Theory	1.5
<b>Credits</b>		<b>19.5</b>
<b>Term II</b>		
WTT-1113	Wind Turbine Rotor Blades	1.5
WTT-1118	Wind Park Construction	3
WTT-1120	Wind Turbine Safety II	3
WTT-1121	Motor Controls & PLC's	3
WTT-1125	Wind Turbine Industry Communication	1.5
WTT-1127	Wind Turbine Hydraulics	1.5
WTT-1129	Wind Turbine Electrical	3
WTT-1130	Wind Turbine Maintenance	6
<b>Credits</b>		<b>22.5</b>
<b>Total Credits</b>		<b>42</b>

### Important Notes:

1. Applicants must be comfortable working at extreme heights and weather conditions and should not suffer from motion sickness.
2. Applicants must have strong mechanical aptitude and experience working with hand tools.
3. As international travel may be required, industry requires potential employees to be eligible for passports.
4. Applicants must hold a current driver's license as travel is required to training and instructional sites.
5. A good working knowledge of the English language (including speaking, comprehension, reading and writing) is necessary for success in the program and future employment opportunities.
6. When WTT-1100 Introductory Electrical Theory (3 credits), WTT-1103 DC Laboratory Fundamentals (3 credits), and WTT-1104 Canadian Electrical Code and Blueprint Reading (3 credits) are combined together they form the requirements for the first period technical training for the Electrician Apprenticeship Period One program. After completion of the Wind Turbine Technician program (or at least the three courses named above), the student could be indentured in the electrician trade and could complete their technical training through to journeyman status by attending the Electrician Apprenticeship Program available at Lethbridge College.

## Apprenticeship Pathway

Students who have successfully completed Lethbridge College's Wind Turbine Technician Certificate program can continue to obtain their Journeyman Certification by registering with Apprenticeship Alberta. For more information about Alberta's apprenticeship requirements go to: <https://tradesecrets.alberta.ca/>



---

## CAREERS

Once certified, your skills will be extremely marketable in this burgeoning industry; many of our students are hired within days of graduation. You'll have multiple future career pathways as a:

- Apprentice Electrician
- Blade Repair Technician
- Wind Turbine Construction
- Wind Turbine Maintenance
- Wind Turbine Manufacturing
- Wind Turbine Technician