

**NORTHERN LIGHTS COLLEGE
REGISTRAR'S OFFICE
PROGRAM INFORMATION AND COMPLETION GUIDE**

Program Name: Wind Turbine Maintenance Technician
Credential/Certification: Advanced Certificate in Wind Turbine
Maintenance

Date Submitted: October 2021
Effective Date: **September 2022**

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Program Description: Students in the Wind Turbine Maintenance Technician program explore the theory supporting wind turbines and the practical maintenance procedures required to maintain turbine output with safe work practices emphasized throughout the program. Upon completion of the program, students are prepared to enter the field as wind turbine technicians and can progress to higher levels of certification within the industry.

The program starts with the Electrician foundation training courses and proceeds to the Wind Turbine specific job site safety training before continuing with Electrician level 1 training. Students then go on a 6 week practicum through the summer months and return in fall for Millwright Foundation training and a final two-week practicum with the same host as the past summer.

Admission Requirements:

Math – one of the following:

BC Pre-Calculus Math 11 or BC Pre-Calculus Math 12 with a minimum final grade of C+, or equivalent.

BC MATH 040 or higher, with a minimum final grade of C+, or equivalent.

English – one of the following:

BC Language Arts 11 Courses – 4 credits earned, minimum individual grade of C+, or equivalent.

BC Language Arts 12 Courses – 4 credits earned, minimum individual grade of C+, or equivalent.

ENGL 040 or higher, with a minimum final grade of C+, or equivalent.

IELTS score of 5.5 overall with no band less than 5.0 or equivalent English placement test and score.

Science – one of the following:

BC Grade 11 Physics or BC Grade 12 Physics with a minimum final grade of C+, or equivalent.

Physics 040 or higher with a minimum final grade of C+, or equivalent.

OR

ESTR 047 (Advanced-Level Essential Skills for Trades) with a minimum final grade of 67%.

OR

Canadian Adult Achievement Test (CAAT):

- Reading Comprehension: 12.0 grade equivalent or higher
- Number Operations: 12.0 grade equivalent or higher
- Problem Solving: 12.0 grade equivalent or higher
- An above average score (51/70; 6th Stanine) required for Mechanical Reasoning
- A score of 70% or higher in the Electrical Math Assessment

Length of Program: (weeks and total hours) approx. 51 weeks, 1576 hours (includes 8 weeks practicum)

Program Intake: (start/finish dates)

Start: February

Finish: March the following year

Available Seats: 16

Application Deadline: All completed applications must be received one month prior to the start of the program. Completed applications received after this date will be reviewed based on seat availability.

Career Prospects: Wind Turbine Maintenance Technicians can find employment in wind turbine maintenance, wind farm construction, turbine manufacturing, or blade inspection and repair. They can also specialize in inspecting or repairing wind turbine electrical, mechanical and hydraulic systems.

Affiliations/Partnerships: Lethbridge College, Vestas Americas, Great Plains College, Industry Training Authority

Location: Dawson Creek and Fort St. John campuses

Additional Requirements/Supplies: (fees, supplies, materials)

- Textbooks
- Safety Gear (CSA approved steel toe boots and glasses)
- Instruction Related Fees for Electrician, Millwright and Wind Turbine cover supplies used in the program.
- Students are required to have a computer (PC or laptop) with minimum computer requirements as listed on the NLC website (www.nlc.bc.ca/Services/Information-Technology/minPC).

Eligibility for Canada Student Loans: (Yes or No)

Yes

Required Minimum Grade: (overall and/or minimum within a course)

Students need a minimum of 70% in all ELFT and MILL courses, and a passing grade in WTMT 150 & WTMT 151.

Residency Requirement: (percentage of courses which must be taken at NLC)

100%

Required Courses: (list courses required to complete credential and total hours for each course)

ELFT 101 Electrician Foundation Trades Training (240 hrs)

ELFT 102 Electrician Foundation Level 1 (300 hrs)

MILL 101 Millwright Foundation (720 hrs)

MILL 161 Millwright Practicum (80 hrs)

WTMT 150 Jobsite Safety (36 hrs)

WTMT 151 Practicum - 6 weeks (200 hrs)