



[WTECCERT; CIP Code 15.1704]

### Certificate Program

This program will provide students thorough knowledge and understanding of fluid hydraulic systems; electrical machinery; mechanical operations; computer and information technology skills; wind turbine operation, maintenance, installation and assembly; and safety, through a combination of classroom and/or online lecture and hands-on laboratory learning modules.

### Program Learning Outcomes

Students who have completed the program should be able to:

- Understand the fundamental principles of wind turbine operation and apply these principles to wind turbine design, installation, repair, design, and maintenance
- Recognize operation, design, and maintenance issues for wind turbine installation, maintenance, and repair
- Utilize critical thinking to problem solve in wind turbine installation, maintenance, and repair

### Program Contact

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# Wind Power and Turbine Technology, CERT

## FIRST YEAR — Fall Semester

<input type="checkbox"/> ENGL 101 English Composition I <i>or</i>	
ENGL 101E Enhanced English Composition I	3-4
<input type="checkbox"/> MATH 120 Pre-Calculus and Mathematical Analysis	4
<input type="checkbox"/> ETEC 107 Circuits I	3
<input type="checkbox"/> ETEC 218 Programmable Logic Controllers	3
<input type="checkbox"/> ETEC 240 Pneumatic and Hydraulic Automation	4
	<hr/> 17-18

## Spring Semester

<input type="checkbox"/> CISM 114 Fundamentals of Programming	4
<input type="checkbox"/> WIND 101 Offshore Safety and Survival	3
<input type="checkbox"/> WIND 110 Wind Power Technology	3
<input type="checkbox"/> WIND 115 Wind Power Operations and Maintenance	4
	<hr/> 14

**TOTAL MINIMUM CREDITS: 31**

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