

**Program Number 61-482-1**  
**Certificate • 12 credits**

**ABOUT THE PROGRAM**

The Bureau of Labor Statistics predicts a 96 percent increase in wind energy careers through 2026. The Wind Tower Climber certificate is an entry-level credential for work at height professionals. Employers seek employees skilled at climbing and working at heights safely for the operation and maintenance activities. This includes the demand for installation technicians, torque mechanics, and repair technicians. Tower climbers travel extensively around the world with wind farm and telecommunications construction, maintenance, and decommissioning.

**PROGRAM OUTCOMES**

- Install and inspect wind turbine components.
- Wear Proper Personal Protection Equipment, identify hazards, mitigate said hazards and safely climb towers.
- Practice the basics of self-evacuation and rescue.

**ADMISSION AND PROGRAM ENROLLMENT STEPS**

- Submit online application.
- Complete Student Success Questionnaire.
- Complete Technical Standards form.
- Schedule a Program Advising Session with your assigned advisor to plan your first semester schedule, review your entire plan of study, discuss the results of the Student Success Questionnaire.

**APPROXIMATE COSTS**

- \$138.90 per credit tuition (WI resident) plus \$8.33 per credit student activity fee. \$10 per credit online, iFlex or hybrid fee. Material fee varies depending on course. Other fees vary by program. Visit [gotoltc.edu/financial-aid/tuition-and-fees](http://gotoltc.edu/financial-aid/tuition-and-fees) for details.

**SPECIAL NOTE**

Tower Climber certificate students may choose to continue their education by completing 38 additional credits for the Wind Technician technical diploma.

**CONTACT**

LTC Career Coach  
 920.693.1162 • [CareerCoach@gotoltc.edu](mailto:CareerCoach@gotoltc.edu)

Catalog No.	Class Title	Credit(s)
<b>Term 1</b>		
10482101	Wind Systems Introduction	3
10482104	Wind Technician 1 - Rescue and Tools	2
10482110	Energy and Solar Power	1
		<b>6</b>
<b>Term 2</b>		
10482106	Wind Technician 2 - Safety and Maintenance	3
10482124	Wind Technician 3 Lab	1
10482132	Turbine Maintenance	2
		<b>6</b>
		<b>TOTAL 12</b>

These class dates and times may be rescheduled due to inclement weather. Students must be within safe-climbing, unequipped body weight of 115 to 295 pounds.

*Curriculum and Program Acceptance requirements are subject to change. Program start dates vary; check with your advisor for details. The tuition and fees are approximate based on 2020-2021 rates and are subject to change prior to the start of the academic year.*



**ENERGY AND SOLAR POWER**...provides the learner with an overview of electrical energy generation and distribution and its relationship to the renewable energy industry. Various types of electric energy systems are compared and contrasted. Solar Energy and its differing applications, including solar hot water and passive solar, are explored. Students will measure the output of a photovoltaic array and learn how a PV system can be integrated into the existing infrastructure.

**TURBINE MAINTENANCE**...prepares learners to climb, inspect and service wind turbines; use torque fasteners; check gearbox lubrication; add grease to moving and exposed parts; verify good electrical connections; perform an overall "system check" and routine maintenance on a wind energy system; in addition to fault determination and troubleshooting. Students will incorporate wind industry best safety practices, must be prepared to climb multiple times in a day, and work full days outside in varying weather conditions. COREQUISITE: 10482124 Wind Technician 3 Lab

**WIND SYSTEMS INTRODUCTION**...prepares the learner to assess the global energy picture, analyze the causes of wind flow and wind flow properties, write a site assessment, explore small, medium, and large wind turbine designs, assess the environmental effects of wind turbines, perform business assessments for wind energy projects, plan a wind energy project, evaluate the operation and maintenance requirements of wind turbines and their components, and analyze the future of wind energy.

**WIND TECHNICIAN 1 - RESCUE AND TOOLS**...prepares students for work at height and to perform equipment inspections on climbing and fall arrest gear; wear required PPE, PFPE, and apparel while working on wind turbine systems. Students will be SAFER certified in safe tower access, climbing, rescue, and confined space rescue, and will demonstrate proper knot tying and display professionalism and safe working habits during all tasks. Students are trained in the use of hand tools and torque tools. COREQUISITE: 10482101 Wind Systems Introduction

**WIND TECHNICIAN 2 - SAFETY AND MAINTENANCE**...familiarizes learners with OSHA regulations related to the wind industry and proper methods to eliminate and control hazards. Students receive training in First Aid, CPR, rigging, and confined space and receive the 10-hour OSHA for General Industry and the Tools at Height certifications. Participants develop skills in repair and maintenance of commercial wind turbines. Industry standards, training manuals, and field experience are course standards. COREQUISITE: 10482104 Wind Technician 1 - Rescue & Tools

**WIND TECHNICIAN 3 LAB**...certifies learner in torque tool techniques with Snap-on tools. Students will apply safe and proper techniques while using various styles of torque wrenches and adapters including hand torque and hydraulic torque wrenches. Students will demonstrate proficiency in performing a variety of maintenance functions on the GE 1.5 nacelle including oil filter changes, generator brush maintenance, and brake pad replacement while following proper safety and LOTO procedures. COREQUISITE: 10482106 Wind Technician 2 - Safety & Maintenance