

MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE

COURSE OUTLINE

Faculty is required to have the outline submitted to the Academic Affairs Office. The course outline is the form used for approval of new courses by the Academic Affairs and Standards Council.

DEPT.: Wind Energy Technology

COURSE NUMBER: ELWT 1170

NUMBER OF CREDITS: 2 (2 lab credits)

COURSE TITLE: Wind Energy OSHA Standards & Climb Lab

CATALOG DESCRIPTION: Provides students with information regarding basic safety principles in the Wind Energy Industry. A brief overview of the Occupational Safety and Health Administration (OSHA) will be discussed. The primary focus will be on OSHA regulations and standards that pertain to the construction and maintenance of wind turbines and the energy industry. This class will also include the proper and safe way to climb in a wind turbine. Concurrent with ELWT 1160.

AUDIENCE: Wind Energy Students

FULFILLS MN TRANSFER CURRICULUM AREA(S) (**Leave blank if not applicable**)

Area: by meeting the following competencies:

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PREREQUISITES OR NECESSARY ENTRY SKILLS/KNOWLEDGE: ELWT 1160 Environmental Health and Safety of Wind Energy

LENGTH OF COURSE: 1 Semester

THIS COURSE IS USUALLY OFFERED:

Every other year fall spring summer undetermined

Four goals are emphasized in course at Minnesota West Community & Technical College:

- 1) **ACADEMIC CONTENT:** The academic objectives of this course are:
 - a. The student will be able to identify how OSHA standards are important to the wind industry
 - b. The student will be able to understand how important their PPE is for their Safety while climbing in a wind turbine
 - c. The student will be able to climb a wind turbine properly and safely
- 2) **THINKING SKILLS:** This course will help students improve the effectiveness of their thinking skills through:
 - a. Understanding OSHA standards and applying them to the wind industry
 - b. Properly climbing a wind turbine and their actions
- 3) **COMMUNICATIONS SKILLS:** This course will help students improve their oral and written communication skills through:
 - a. Helping each other understand the OSHA standards while working

b. Overall class participation

4) HUMAN DIVERSITY: This course will help students recognize, understand, and appreciate human diversity through:

- a. Working with others and discussions with others during class
- b. The different thoughts of everyone associated with class and being partners in the wind industry

TOPICS TO BE COVERED:

General OSHA standards
The Safety of yourself in the wind industry
How to climb a wind turbine properly and safely

LIST OF EXPECTED COURSE OUTCOMES:

Students will be able to understand the importance of the OSHA standards and apply them to the wind industry

Students will be able to climb a wind turbine with confidence and understand how safety is number one

LEARNING/TEACHING TECHNIQUES used in the course are:

- | | |
|--|--|
| <input checked="" type="checkbox"/> Collaborative Learning | <input type="checkbox"/> Problem Solving |
| <input type="checkbox"/> Student Presentations | <input checked="" type="checkbox"/> Interactive Lectures |
| <input type="checkbox"/> Creative Projects | <input checked="" type="checkbox"/> Individual Coaching |
| <input checked="" type="checkbox"/> Lecture | <input checked="" type="checkbox"/> Films/Videos/Slides |
| <input checked="" type="checkbox"/> Demonstrations | <input type="checkbox"/> Other (describe below) |
| <input checked="" type="checkbox"/> Lab | |

ASSIGNMENTS AND ASSESSMENTS FOR THIS CLASS INCLUDE:

- | | | |
|--|--|---------------------|
| <input checked="" type="checkbox"/> Reading | <input checked="" type="checkbox"/> Tests | Individual Projects |
| <input type="checkbox"/> Oral Presentations | <input checked="" type="checkbox"/> Worksheets | |
| <input type="checkbox"/> Textbook Problems | Papers | Portfolio |
| <input checked="" type="checkbox"/> Group Problems | Term Paper | |
| <input type="checkbox"/> Other (describe below) | | |

EXPECTED STUDENT LEARNING OUTCOMES:

The student will understand the OSHA standards and also be able to climb a wind turbine properly and safely.

The information in this course outline is subject to revision

Veteran Services: Minnesota West is dedicated to assisting veterans and eligible family members in achieving their educational goals efficiently. Active duty and reserve/guard military members should advise their instructor of all regularly scheduled military appointments and duties that conflict with scheduled course requirements. Instructors will make every effort to work with the student to identify adjusted timelines. If you are a veteran, please contact the Minnesota West Veterans Service Office.

To receive reasonable accommodations for a documented disability, please contact the campus Student Services Advisor or campus Disability Coordinator as arrangements must be made in advance. In addition, students are encouraged to notify their instructor.

This document is available in alternative formats to individuals with disabilities by

contacting the Student Services Advisor or by calling 800-658-2330 or

Minnesota Relay Service at 800-627-3529 or by using your preferred relay service.

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