MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE COURSE OUTLINE

DEPT. ELWT	COURSE NUMBER: 1170
NUMBER OF CREDITS: 3	Lecture: 1 Lab: 2 OJT: 0
Course Title:	
Wind Energy OSHA Standards & Climb Lab	
Catalog Description:	
Wind Energy OSHA Standards & Climb Lab introduce models and sizes offered by existing companies. Basic industry and a brief overview of the Occupational Safe pertaining to the climbing of wind turbines will be cov inspect equipment before climbing and properly store of	safety principles in the wind energy ety and Health Administration (OSHA) ered. Students will learn how to properly
Prerequisites or Necessary Entry Skills/Kno	wledge:
None	
FULFILLS MN TRANSFER CURRICULUM applicable)	M AREA(S) (Leave blank if not
□Goal 1: Communication: By meeting the following c	competencies:
\square Goal 2: Critical Thinking: By meeting the following	competencies:
☐Goal 3: Natural Sciences: By meeting the following	competencies:
☐Goal 4: Mathematics/Logical Reasoning: By meeting	the following competencies:
☐Goal 5: History and the Social and Behavioral Science competencies:	ees: By meeting the following
☐Goal 6: The Humanities and Fine Arts: By meeting th	ne following competencies:
☐Goal 7: Human Diversity: By meeting the following of	-
☐Goal 8: Global Perspective: By meeting the following	g competencies:
☐Goal 9: Ethical and Civic Responsibility: By meeting	_
☐Goal 10: People and the Environment: By meeting the	
Topics to be Covered	
Types of wind energy turbines	
Systems of wind energy	
Wind turbine parts	
OSHA standards according to the wind industry	
Personal Protective Equipment	
Climbing gear inspection	
Ladder safety	
Working heights	

Climbing a wind turbine properly and safely	
Student Learning Outcomes	
Inspect the full body harness.	
Inspect the Lad Safe cable sleeve.	
Inspect the lanyard.	
Demonstrate how to fit the harness.	
Demonstrate how to attach the Lad Safe cable sleeve to the cable.	
Demonstrate how to safely attach the lanyard to a tie off point.	
Develop a technique on how to climb a 200 to 300-foot ladder.	
Describe PPE and other safety gear.	
Explain OSHA rules about ladder safety.	
Identify and locate wind turbine parts	
Discuss safety issues in the wind energy industry	
Is this course part of a transfer pathway: Yes □ No ☒	
*If yes, please list the competencies below	

Revised Date: 1/1/2022