

# MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE

## COURSE OUTLINE

**DEPT. ELPL**

**COURSE NUMBER: 1100**

**NUMBER OF CREDITS: 3**

**Lecture: 1 Lab: 2 OJT 0**

<b>Course Title:</b>
Pole Climbing and Equipment Operation

<b>Catalog Description:</b>
Pole Climbing and Equipment Operation covers climbing techniques, with fall arrest. Students will also learn installation and removal of pole hardware, setup and safe operation of digger derricks, bucket trucks, hydraulic systems, and truck driving operations. Also included in the course is the operation of elbow and squirt booms, safety checkout and use of the lifting jib.

<b>Prerequisites or Necessary Entry Skills/Knowledge:</b>
None

### FULFILLS MN TRANSFER CURRICULUM AREA(S)

- ☐ Goal 1: Communication: By meeting the following competencies:
- ☐ 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 Sciences: By meeting the following competencies:
- ☐ Goal 6: The Humanities and Fine Arts: By meeting the following competencies:
- ☐ Goal 7: Human Diversity: By meeting the following competencies:
- ☐ Goal 8: Global Perspective: By meeting the following competencies:
- ☐ Goal 9: Ethical and Civic Responsibility: By meeting the following competencies:
- ☐ Goal 10: People and the Environment: By meeting the following competencies:

<b>Topics to be Covered</b>
Pole climbing equipment
Pole climbing fundamentals
Testing Poles
Digger truck safety and operation
Hole digging and setting poles

<b>Student Learning Outcomes</b>
Identify pole climbing equipment
Describe hand and foot placement
Describe tool belt safety strap placement

Describe pole quadrant
Demonstrate climbing pole freehand
Demonstrate climbing pole safety strap method
Describe sound testing pole
Describe safety rules for digger derricks truck operation including positioning, stabilizing, override control, emergency operations, emergency procedures, boom lifting capabilities, and truck ground and barrier
Complete log sheet for digger truck
Describe digger truck hydraulic and overload protectors
Describe digger truck cold weather start-up
Demonstrate steps for digging hole
Demonstrate steps for setting pole

**Is this course part of a transfer pathway:** Yes ☐ No ☒

Revised Date: October, 2020