

MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE

COURSE OUTLINE

DEPT. ELPL

COURSE NUMBER: 1102

NUMBER OF CREDITS: 4

Lecture: 1 Lab: 3 OJT 0

Course Title:
Pole Climbing and Equipment Operations II

Catalog Description:
Pole Climbing and Equipment Operations II covers two of the techniques used by powerline workers to elevate themselves to a safe working position for the installation, maintenance or removal of electrical equipment on powerlines. The techniques are pole climbing and safe operations of digger and basket trucks. This course is a continuation of Pole Climbing and Equipment Operations.

Prerequisites or Necessary Entry Skills/Knowledge:
ELPL1100

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:

Topics to be Covered
Crossarm construction and framing poles
Bucket truck safety and operation
Setting and removing poles
Rigging and knots

Student Learning Outcomes
Frame single and double crossarms
Retire single and double crossarms
Perform pole top rescue

Describe safety rules for bucket truck operation including positioning, stabilizing, override control, emergency operations, emergency procedures, boom lifting capabilities, and truck ground and barrier
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Complete log sheet for digger truck

Describe digger truck hydraulic and overload protectors

Describe digger truck cold weather start-up

Is this course part of a transfer pathway: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

Revised Date: October, 2020