

MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE

COURSE OUTLINE

DEPT. ELPL

COURSE NUMBER: 1106

NUMBER OF CREDITS: 4

Lecture: 1 Lab: 3 OJT 0

Course Title:
Electrical Distribution of Powerlines I

Catalog Description:
Electrical Distribution of Powerlines I covers the care and maintenance of personal tools, nomenclature and use of company tools, nomenclature and installation of pole line hardware, setting and aligning poles, stringing single phase and three phase wires, installation of armor rods, hand ties, and preform ties. The course also covers the change-out of single phase and three phase transformers, overhead secondaries and offers instruction in elementary knots and the use of different types of slings.

Prerequisites or Necessary Entry Skills/Knowledge:
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:

Topics to be Covered
Pole Setting
Specification Sheets
Single-phase Poles, Lines, and Structures
Primary, Neutral and String Conductors
Secondaries
Three-phase Poles Lines and Structures

Student Learning Outcomes
Describe the components of a specification sheet
Describe single-phase structures
Frame single-phase poles
Describe B construction
Describe string conductor
Frame B (V-phase) construction
Build single phase line
Frame three-phase poles
Perform aerial basket rescue

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

Revised Date: October, 2020