Faculty members are 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. ELPL COURSE NUMBER:** 1106

**NUMBER OF CREDITS:** 4 Lecture: 1 Lab: 3 OJT 0

<table>
<thead>
<tr>
<th>Course Title:</th>
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<tbody>
<tr>
<td>Electrical Distribution of Powerlines 1</td>
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</table>

**Catalog Description:**
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 ☐ | No ☒ |

Revised Date: October, 2020