MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE
COURSE OUTLINE

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: 1116

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

<table>
<thead>
<tr>
<th>Course Title:</th>
<th>Electrical Distribution of Powerlines II</th>
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<tbody>
<tr>
<td>Catalog Description:</td>
<td>Covers the application, care, and use of rubber goods, insulated coverup use, and the use of bucket trucks. This course also covers pole top insulator change outs, pole replacements, and conductor transfers all simulating the line being 'Hot'.</td>
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| Prerequisites or Necessary Entry Skills/Knowledge: | ELPL1106 |

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
- Precautions and safety before digging
- Three-phase overhead lines
- Conductor ties
- Open wire and triplex secondaries
- URD

### Student Learning Outcomes
- Describe before digging precautions
- Build three-phase overhead lines
- Install conductor ties
- Install open-wire and triplex secondaries
- Splice 600 volt underground cable
- Demonstrate the use of underground cable preparation tools
- Install 15 KV URD terminators, elbows, and cable splices
- Demonstrate ground procedures for URD cable

### Is this course part of a transfer pathway?
- Yes [ ]
- No [x]

Revised Date: October, 2020