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. ELUT COURSE NUMBER: 1101

NUMBER OF CREDITS: 3 Lecture: 2 Lab: 1 OJT 0

Course Title:
Electrical Rigging and Safety

Catalog Description:
Includes State and Federal OSHA Rules and National Electric Safety Work Rules, regarding safety in the Electrical Field. Emphasis is on personal protective equipment, personal, and company rules of safety. Instruction in elementary knots and the use of different types of slings. Outdoor lab includes pole top rescue, the safe practices of grounding, and the rigging and lowering of a crossarm.

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
- State OSHA Rules
- AMSO Work Rules
- OSHA Rules
- Safety rules related to grounding and clearance
- Knots, bends, and hitches used in rope tying and lifting

## Student Learning Outcomes

1. Describe and apply State OSHA Rules
2. Describe and apply AMSO Work Rules
3. Describe and apply Federal OSHA Rules
4. Demonstrate safe working distance
5. Demonstrate air-testing rubber gloves
6. Demonstrate knot tying and braiding rope splices
7. Analyze sling load angles
8. Calculate sling angle loads
9. Describe a lifting chain and determine line loads
10. Discuss a hold-tag order

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

Revised Date: October, 2020