

MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE

COURSE OUTLINE

DEPT. ELUT

COURSE NUMBER: 1101

NUMBER OF CREDITS: 3

Lecture: 2 Lab: 1 OJT 0

Course Title:

Electrical Rigging and Safety

Catalog Description:

Electrical Rigging and Safety 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

Describe and apply State OSHA Rules

Describe and apply AMSO Work Rules
Describe and apply Federal OSHA Rules
Demonstrate safe working distance
Demonstrate air-testing rubber gloves
Demonstrate knot tying and braiding rope splices
Analyze sling load angles
Calculate sling angle loads
Describe a lifting chain and determine line loads
Discuss a hold-tag order

Is this course part of a transfer pathway: Yes No

Revised Date: October, 2020