

MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE

COURSE OUTLINE

DEPT. ELUT

COURSE NUMBER: 1120

NUMBER OF CREDITS: 2

Lecture: 1 Lab: 1 OJT 0

Course Title:

Specification, Testing, and Maintenance

Catalog Description:

Specification, Testing, and Maintenance covers the procedures, specifications of testing methods, and maintenance used throughout the electrical industry for new and refurbished equipment.

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

Simple rules of safety and hazards that can happen due to improper maintenance of equipment
NETA standards for testing and maintenance.

Student Learning Outcomes

Describe the purpose of inspecting, the maintenance required, and the safety hazards involved in performing reclosure maintenance.

Describe the purpose of inspecting, the maintenance required, and the safety hazards involved in performing switch maintenance.

Describe the method of safely storing and disposing of PCB equipment.

Identify the methods of reconditioning and reclaiming oil and list the requirements of oil.

Identify and describe the methods of testing and drying transformers in the field.

Describe the purpose of inspecting, the maintenance required, and the safety hazards involved in performing lightning arrester maintenance.

Is this course part of a transfer pathway: Yes No

Revised Date: October, 2020