MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE
COURSE OUTLINE

Faculty 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 Collegewide Curriculum Committee.

DEPT. ELUT COURSE NO. 1120

NUMBER OF CREDITS: 3

COURSE TITLE Specification, Testing, and Maintenance

CATALOG DESCRIPTION: This course covers the procedures, specifications of testing methods, and maintenance used throughout the electrical industry for new and refurbished equipment.

AUDIENCE: This course is designed for students in the Electric Utility field who are interested into learning more about specification, testing and maintenance of new and used equipment.

FULFILLS MN TRANSFER CURRICULUM AREA(S) (Leave blank if not applicable)
Area: by meeting the following competencies:
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Area: by meeting the following competencies:

PREREQUISITES OR NECESSARY ENTRY SKILLS/KNOWLEDGE: none

LENGTH OF COURSE 1 semester

THIS COURSE IS USUALLY OFFERED:
Every other year fall spring X summer undetermined

Four goals are emphasized in course at Minnesota West Community & Technical College:

1) ACADEMIC CONTENT: Math, Reading

2) THINKING SKILLS:

3) COMMUNICATIONS SKILLS: Must communicate well with others and communicate problems well that will arise in the field.

4) HUMAN DIVERSITY:

TOPICS TO BE COVERED: Learn about simple rules of safety and hazards that can happen due to improper maintenance of equipment. Study NETA standards for testing and maintenance.

LIST OF EXPECTED COURSE OUTCOMES:
The student will:
1. Describe the purpose of inspecting, the maintenance required, and the safety hazards involved in performing reclosure maintenance.
2. Describe the purpose of inspecting, the maintenance required, and the safety hazards involved in performing switch maintenance.
3. Describe the method of safely storing and disposing of PCB equipment.
4. Identify the methods of reconditioning and reclaiming oil and list the requirements of oil.
5. Identify and describe the methods of testing and drying transformers in the field.
6. Describe the purpose of inspecting, the maintenance required, and the safety hazards involved in performing lightning arrester maintenance.

LEARNING/TEACHING TECHNIQUES used in the course are:
X Collaborative Learning   X Problem Solving
  Student Presentations   X Interactive Lectures
X Creative Projects       Individual Coaching
X Lecture                Films/Videos/Slides
X Demonstrations         Other (describe below)
X Lab

ASSIGNMENTS AND ASSESSMENTS FOR THIS CLASS INCLUDE:
X Reading                 X Tests                 X Individual Projects
  Oral Presentations       X Worksheets            Collaborative Projects
X Textbook Problems       X Papers                Portfolio
X Group Problems          Term Paper
  Other (describe below)

EXPECTED STUDENT LEARNING OUTCOMES:

The information in this course outline is subject to revision

Veteran Services: Minnesota West is dedicated to assisting veterans and eligible family members in achieving their educational goals efficiently. Active duty and reserve/guard military members should advise their instructor of all regularly scheduled military appointments and duties that conflict with scheduled course requirements. Instructors will make every effort to work with the student to identify adjusted timelines. If you are a veteran, please contact the Minnesota West Veterans Service Office.

To receive reasonable accommodations for a documented disability, please contact the campus Student Services Advisor or campus Disability Coordinator as arrangements must be made in advance. In addition, students are encouraged to notify their instructor.

This document is available in alternative formats to individuals with disabilities by contacting the Student Services Advisor or by calling 800-658-2330 or Minnesota Relay Service at 800-627-3529 or by using your preferred relay service.

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