

**MESABI RANGE COMMUNITY AND TECHNICAL COLLEGE -Eveleth
COURSE OUTLINE**

Course Title: ELECT/MECH TOOLS, EQUIPMENT, & SYSTEMS **Approval Date:** _____
Course Prefix and Number: EIAT 1276 **Revision Date:** 2/22/06

Number of Credits: 2 **Number of Lecture Hours:** **Number of Lab Hours:** 2
Semester(s) Offered: 1 **Number of Studio/Discussion Hours:** _____

Class Size: 24

Negotiated by AASC on

(Date)____

Course Purpose Code:

- ___ 0 - Developmental Courses
- ___ 1 - General Studies (Eveleth campus only)
- X 2 - Technical course related to career programs
- ___ 3 - College course which has the primary goal of applying certain concepts (e.g. vocal ensemble)
- ___ 4 - Other college course not considered a part of general education (MNTC) e.g. computer science, health, physical education
- ___ 5 - Course which is intended to fulfill general education, Minnesota Transfer Curriculum (MNTC) requirements
- ___ 9 - Continuing Education/Customized Training specialized credit course (not occurring in 0-5)

Catalog Description:

This course is designed to familiarize the student with tools, materials, and procedures used in the installation and maintenance of electrical systems and equipment. Instruction includes the safe and proper usage of specialized tools and test equipment used in electrical work. The student will gain a working knowledge of the specifications, application, and standards related to materials used in electrical distribution. The course examines the mechanical applications and procedures used in the installation of electrical equipment and systems.

Prerequisites and/or recommended entry skills/knowledge:

Course Prerequisite(s):

Reading Prerequisite:

Composition Prerequisite:

Mathematics Prerequisite:

Career Programs and Transfer Majors Accessing this Course:

Automated Control Technologies

Learning outcomes, including any relevant competencies listed in the Minnesota Transfer Curriculum:

Possible student assessment methods:

Lab assignments, worksheets, and tests.

Use of instructional technology (include software, interactive video and other instructional technologies):

Web research, videos, interactive PC bases learning modules, lab facilities and equipment

A one-paragraph summary or outline of the major course content:

This course is designed to familiarize the student with tools, materials, and procedures used in the installation and maintenance of electrical systems and equipment. Instruction includes the safe and proper usage of specialized tools and test equipment used in electrical work. The student will gain a working knowledge of the specifications, application, and standards related to materials used in electrical distribution. The course examines the mechanical applications and procedures used in the installation of electrical equipment and systems.

Additional special information (special fees, directives on hazardous materials, etc.)

Laptop Computer Lease

Approvals:

Body	Representative Signatures	Date
Curriculum Committee		
Faculty Association		
Academic Affairs Standards Committee		
Chief Academic Officer		

Distribution: Original – Administrative Office

Copies: Curriculum Committee Chair, Learning Center, Library, Originating Faculty Member, Records, Student Services, Scheduler, Transfer Specialist

Revised February 10, 2004