

# Dakota County Technical College

## ELLW 1180: Underground Cable and Fault Locating

### A. COURSE DESCRIPTION

Credits: 2

Lecture Hours/Week: 1

Lab Hours/Week: 1

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

This course covers the practices and techniques used in cable and fault locating. The student will understand and demonstrate all safety practices in the application and operation involved with the equipment used in this course. Prerequisites: None

**B. COURSE EFFECTIVE DATES:** 03/22/1998 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

### D. LEARNING OUTCOMES (General)

1. apply all accepted URD work rule regulations
2. apply URD, NESC, ASTM tested and inspected grounds in field situations
3. demonstrate use of acoustical listening devices
4. demonstrate use of cable burner
5. demonstrate use of cable hy-pot
6. demonstrate use of cable locator
7. demonstrate use of cable thumper
8. demonstrate use of high voltage radar
9. demonstrate use of low voltage radar
10. demonstrate use of megger for cable insulation tester
11. demonstrate use of UD symbols and maps
12. describe three more of today's used locating devices
13. describe three more of today's used locating devices
14. identify and isolate cables for testing
15. list all safety procedures for use of UD testing equipment
16. test cables for de-energization

### E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

### F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

### G. SPECIAL INFORMATION

None noted