

# Dakota County Technical College

## ELLW 1120: Utility Equipment and Tools

### 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 offers an introduction to the tools used in the line industry. Personal tools, climbing tools, and the introduction to the safe operation of carrier-mounted devices are included. The digger/derrick and the personnel-carrying aerial devices will be covered. Prerequisites: ELLW0098.

**B. COURSE EFFECTIVE DATES:** 03/21/1998 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

### D. LEARNING OUTCOMES (General)

1. describe boom lifting capabilities
2. describe closed hydraulic system
3. describe emergency operations
4. describe hydraulic tool detent system
5. describe open hydraulic system
6. describe truck & unit positioning
7. describe truck safety requirements
8. identify different unit cylinders
9. identify personal hand tools
10. identify wire pulling tools
11. maintain pole climbing equipment
12. perform before operation chassis check
13. perform before operation unit check
14. perform climber cut-out test
15. perform unit stability checks
16. research vehicle mounted rotating and aerial devices ANSI standard A92.2
17. shape climber gaffs
18. use different available winches
19. use digger/derrick units
20. use personnel carrying aerial devices
21. use standard operating hand signals
22. use truck grounding protection

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

None

**F. LEARNER OUTCOMES ASSESSMENT**

As noted on course syllabus

**G. SPECIAL INFORMATION**

None noted