

# Dakota County Technical College

## ELLW 1110: Distribution I

### A. COURSE DESCRIPTION

Credits: 4

Lecture Hours/Week: 2

Lab Hours/Week: 2

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

This course covers the task of learning to climb safely along with the use of digger/derrick units. It includes an introduction of the materials and their applications, along with an introduction to the application of rigging to the industry. The safety aspect of the industry is stressed in these applications.  
Prerequisites: ELLW1098

**B. COURSE EFFECTIVE DATES:** 03/16/1998 - Present

**C. OUTLINE OF MAJOR CONTENT AREAS**

## **D. LEARNING OUTCOMES (General)**

1. acquire line construction data for staking sheet
2. apply correct, safe handline usage
3. apply horizontal and vertical framing
4. apply offsetting, raking and plumbing to a pole
5. apply pole hardware
6. apply safe working pole positions
7. apply specific knots to applications
8. apply staking sheet data with transit and chain to line construction
9. build rope dielectric and strength characteristics comparison chart
10. calculate rope working loads
11. cant poles
12. construct an eye splice
13. define pole face usage
14. define safe working load
15. define safe pole handling F
16. define wire and rope tensile strengths
17. demonstrate reeving, block and tackle rigging
18. demonstrate tying bends
19. demonstrate tying hitches
20. demonstrate tying knots
21. describe and apply procedures for sling applications
22. describe applications of pole hardware
23. describe correct handline usage
24. describe dielectric strengths
25. describe methods and materials used in pole treatment
26. describe pole brand information
27. describe pole inspection methods
28. describe pole requirements
29. describe three strand and braid rope construction
30. describe safe working pole positions
31. determine bit sizing
32. dig hole by hand
33. dig hole by machine
34. drill hole with hand auger and electric drill
35. install and remove double crossarms
36. install and remove single crossarms
37. list synthetic and natural fiber ropes
38. load poles safely
39. retire poles and hardware safely
40. secure rope ends with a whip or crown knot
41. set pole by hand
42. set pole by machine
43. store poles safely
44. transport poles safely

45. unload poles safely
46. use boom and pike pole holding equipment
47. use pole handling equipment safely
48. using a safety strap to ascend and descend the pole

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

None

**F. LEARNER OUTCOMES ASSESSMENT**

As noted on course syllabus

**G. SPECIAL INFORMATION**

None noted