

# Dakota County Technical College

## ELLW 1150: Construction Planning and Practices

### A. COURSE DESCRIPTION

Credits: 2

Lecture Hours/Week: 1

Lab Hours/Week: 1

OJT Hours/Week: \*.\*

Prerequisites:

This course requires the following prerequisite

ELLW 1110 - Distribution I

Corequisites: None

MnTC Goals: None

This course covers the use of different drawings, maps, and construction materials used in the lineworker's field. This includes the list of materials and specifications. Use of the transit will be introduced and applied to the lab field where lines will be staked for future building as a project. Placement of anchors and the installation of line equipment will also be used in the advanced part of the class. Prerequisites: ELLW1110

**B. COURSE EFFECTIVE DATES:** 03/20/1998 - Present

**C. OUTLINE OF MAJOR CONTENT AREAS**

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

1. apply drawing and map legends
2. apply identification and material use
3. apply material lists
4. apply one line symbols
5. apply standard and complete symbol
6. apply use of material list
7. apply use of specification drawings
8. apply use of staking sheets
9. bisect line angles
10. define anchor placement requirements
11. define and use exaggerated scales
12. define angle placement requirements
13. define construction turns
14. define corner placement requirements
15. define environmental impact statements
16. define grounding configurations
17. define insulation requirements
18. define loop design
19. define pole line loading
20. define radial design
21. define required framing clearances
22. define vertical framing
23. describe pole line strength
24. describe required work clearances
25. determine anchor placement
26. determine angle construction
27. determine construction phasing
28. determine horizontal framing
29. determine levels and elevations
30. determine straight line (center line)
31. determine tangent construction
32. establish bench marks
33. identify and use construction strip maps
34. identify architectural drawings and symbols
35. identify clearing diagrams
36. identify condemnation drawings
37. identify connection diagram
38. identify electrical drawings and symbols
39. identify mechanical drawings and symbols
40. identify orthographic and isometric drawings
41. identify plan and profile maps
42. identify right of way descriptions
43. identify schematic diagram
44. identify schematics and connection diagrams

45. identify specification drawings
46. identify structural drawings and symbols
47. identify vicinity maps and symbols
48. list drawings used in the lineworkers field
49. list transit instrument nomenclature
50. set up instrument
51. turn line angles
52. use transit instrument

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

None

**F. LEARNER OUTCOMES ASSESSMENT**

As noted on course syllabus

**G. SPECIAL INFORMATION**

None noted