

# Dakota County Technical College

## **ELEC 2210: National Electric Code II**

### **A. COURSE DESCRIPTION**

Credits: 3

Lecture Hours/Week: 3

Lab Hours/Week: \*.\*

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

This course covers continued requirements of the National Electrical Code. Prerequisites: ELEC1130.

**B. COURSE EFFECTIVE DATES:** 01/13/2003 - Present

**C. OUTLINE OF MAJOR CONTENT AREAS**

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

1. be appraise of requirements of mobile homes
2. be familiar with agricultural building provisions
3. know service entrance provisions for industrial locations
4. know that hazardous locations constitute areas where gas, dust or ignitable fibers exist
5. know the electrical requirements for installation of motors and its equipment
6. know the location of provisions pertaining to carnivals, circuses, exhibitions, fairs, traveling attractions, and similar functions
7. know the provisions for fire pumps
8. know the requirements of "Places of Assembly"
9. recall the code requirements for swimming pools
10. recall the feeder tap rules
11. recall the health care facility electrical requirements
12. recall the requirements of electric signs
13. recall the stipulations for electric vehicle charging systems
14. thoroughly understand manufactured building requirements
15. understand requirement of bonding service raceways and equipment
16. understand the code provisions for elevators, dumbwaiters, escalator, moving walks, etc.
17. understand the distinction between division 1 and division 2 conditions
18. understand the electrical requirements marinas and boatyards
19. understand the health care facility terminology
20. understand the provisions of NEC articles 500 through 504 cover the requirement for electrical installations in hazardous locations
21. understand the requirements for floating buildings
22. understand the requirements for hydro massage bathtubs
23. understand the specific equipment provisions for cranes and hoists, electric welders, electroplating, industrial machinery, and capacitors
24. understand the two types of branches (life safety and critical)
25. understand the two types of systems (equipment and emergency)
26. understand transformer installation requirements

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

None

#### **F. LEARNER OUTCOMES ASSESSMENT**

As noted on course syllabus

#### **G. SPECIAL INFORMATION**

None noted