

# North Hennepin Community College

## BIT 1420: Electrical Inspection

### A. COURSE DESCRIPTION

Credits: 2

Lecture Hours/Week: \*.\*

Lab Hours/Week: \*.\*

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

This course acquaints the student with a working knowledge of plan review and field inspection relative to the international electrical code and the state code. Students will have the opportunity to study electrical design and perform electrical computations.

Prior math skills are recommended.

For BIT students it is recommended that CMSV 2860 or equivalent knowledge be completed before taking this course.

### B. COURSE EFFECTIVE DATES: 07/16/1997 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

1. The foundations of electrical codes
2. Testing and inspection techniques
3. Understanding electrical load requirements
4. Types of services/circuits and associated code requirements
5. Electrical equipment specifications and the code
6. Perform electrical computations

### D. LEARNING OUTCOMES (General)

1. Identify code requirements for electrical systems with emphasis on performance and safety issues (Program Goal 1; NHCC Core Ability Ethical and Civic Responsibility, comps. b, c, d)
2. Identify the load and use requirements of electrical equipment and appliances (Program Goals 1, 2, 3 NHCC Core Ability Critical Thinking, comps. a, b, c)
3. Find applicable code sources that are relevant to electrical inspections (Program Goals 1, 2, 3; NHCC Core Ability Critical Thinking, comps. a, b, c)
4. Develop the ability to conduct specific onsite tests to evaluate electrical system performance and understand the meaning of various test results (Program Goals 1, 2, 3)

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

None

### F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

### G. SPECIAL INFORMATION

None noted