

ELE 210 - ELECTRICAL CODE STUDIES I

Course Description

This course prepares students and/or the working apprentice electrician to take the State of Michigan Electrical Journeyman Examination. Concepts include the most up-to-date version of the National Electric Code as it pertains to definitions and requirements for electrical installations, wiring and protection, wiring methods and materials, and equipment for general use. Group 2 course.

Credit Hours

3

Contact Hours

3

Lecture Hours

3

Required Prerequisites

ELE 126

Course Learning Outcomes

Knowledge:

- Define the purpose of the National Electrical Code.
- Identify symbols, formulas, and references used in the National Electrical Code.

Application:

- Locate the supporting National Electrical Code references.
- Apply the National Electrical Code to specific electrical installations.

Integration:

- Verify the appropriate National Electrical Code Rules for various applications.
- Develop familiarity with the navigation of the National Electrical Code.

Human Dimension:

- Take responsibility for completing work in a neat and proficient manner.

Caring - Civic Learning:

- Commit to the safety and wellbeing of everyone on the job site and the end user.
- Value the importance of electricity and the electrical field to daily life.

Learning How to Learn:

- Construct knowledge about the use of logic in electrical studies.
- Reflect on their ability to use the National Electric Code, the State of Michigan Electrical Administrative Laws and OSHA Construction and Electrical safety rules effectively.