

Department:

Electrical Technology

Course Description:

This purpose of this course is to introduce the Block and Associates exam. The course focuses on the makeup of the tests, the best use of time, highlighting text in the code book, and many other helpful testing ideas. The course will also provide sample exams and explain how to identify weaknesses and areas needing improvement.

Course Competencies:

Upon completion of the course, the student should be able to:

1. Locate the articles of the NEC code.
2. Interpret and use the NEC code book.

Course Content:

- A. Chapter 1: Electrical theory
 1. Ohm's Law
 2. Alternating current
 3. Direct current
- B. Chapter 2: NEC calculations
 1. Raceway fill
 2. Box fill
 3. Conductor size
- C. Chapter 3: Advanced NEC calculations
 1. Dwelling units
 2. Multifamily dwelling
 3. Commercial and transformer
- D. Chapter 4: Practice exams

Learning Assessments:

Course competencies will be assessed by use of quizzes, tests, evaluation of lab work and work skills, and a final exam.

Instructional Materials:

Electrician Exam Prep Book, Holt, Mike Holt Enterprises, 2008. ISBN: 9781932685367

**Guidelines for Requesting Accommodations Based on
Documented Disability or Medical Condition**

It is the intention of Highland Community College to work toward full compliance with the Americans with Disabilities Act, to make instructional programs accessible to all people, and to provide reasonable accommodations according to the law.

Students should understand that it is their responsibility to self-identify their need(s) for accommodation and that they must provide current, comprehensive diagnosis of a specific disability or medical condition from a qualified professional in order to receive services. Documentation must include specific recommendations for accommodation(s). Documentation should be provided in a timely manner prior to or early in the semester so that the requested accommodation can be considered and, if warranted, arranged.

In order to begin the process all students **must** complete the “Disabilities Self-Identification Form” at this link:
<https://highlandcc.edu/pages/disability-services>.

This form can also be accessed at the Highland Community College homepage under Students Services/Student Resources/Disability Service or by contacting the Disabilities Coordinator.