

ELE 101 - INTRODUCTION TO ELECTRICAL

Course Description

This course provides an introduction to the electrical. Through structured classroom and hands-on skill building, the student will learn safety, basic electricity, Ohm's Law, basic electric circuits, meters and wire sizes. Group 2 course.

Credit Hours

3

Contact Hours

4

Lecture Hours

2

Lab Hours

2

Recommended Prerequisites or Skills Competencies

Placement in MTH 111 or higher, or co-enrollment in the appropriate developmental Math course, placement into ENG 11/111 or higher or co-enrollment in the appropriate developmental English course.

Course Learning Outcomes

Knowledge:

- Recall the fundamentals of electrical theory.
- Explain safety on the construction site.
- Recognize hand and power tools.
- Identify electrical test equipment.
- Describe the basics of electrical circuitry.

Application:

- Show proper use of hand tools.
- Demonstrate proper job-site safety.
- Calculate the electrical elements of basic circuit wiring.

Integration:

- Recognize advanced applications.
- Distinguish how electricity works in a variety of applications.

Human Dimension:

- Estimate the amount of electricity consumed on a daily basis and how it impacts people's lives.

Caring - Civic Learning:

- Recognize the unseen power behind everything we use.

Learning How to Learn:

- Judge the efficient use of electricity in daily applications.