Class Syllabus

Electricity II (8534)

Teacher: Larry Grubbs

Classroom/Shop: Mertz Electricity

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Course Description

The students develop skills in installation, operation, maintenance, and repair of electrical systems, and how to achieve that safely and efficiently.

Course Content (Brief)

1st 9 Weeks. Demonstrate workplace readiness skills. Applying basic construction safety standards. Complying with OSHA, VOSHA, and the EPA. Identifying various types of tools and how to use them.

2nd 9 Weeks. Learning and applying the basic electrical theory. Wiring series and parallel circuits, and how to calculate and troubleshoot them. Drawing and interpreting electrical prints.

3rd 9 Weeks. We will examine all aspects of the industry, and address the elements of student life. Focus on the training and licensing in the field. Investigate the various occupations and opportunities in the industry.

4th 9 Weeks. Explore environmentally friendly equipment and methods. Explain the intent of the NEC and interpret the NEC requirements for installation. Identify and install various conduits and raceways. Install overcurrent protection devices and service entrance equipment.