

## List of classes offered:

**Basic Electricity** This class can be offered as a 2, 4, or 8 hour class for individuals that need an introduction to electricity as it relates to their work place. Has been offer numerous times to employees of Electrical Utilities. (Basic DC and AC introduction)

**Advanced Electricity** A class or classes in AC single and three phase electrical theory and applications. The class is tailored to the needs of the students and/or industry. Class time depends on students needs.

**Introduction to Electronics** The class is again tailored to the students needs and can be presented in multiple or in a single session depending on the objectives of the class.

**Introduction to PLCs** This is a very elementary course presented in up to four hours introducing the students to Programmable Logic Controllers.

**Transformers** A four or eight hour class that introduces the student to transformer action, theory of operation, kinds of transformers, power transfer, efficiency, voltage regulation, buck and boost and many other characteristics along with NEC wiring requirements. (This is a four hour continuing education class.)

**Electric Motors** A four or eight hour class devoted to DC, single phase AC and three phase motors. The students learn motor action, types of motors, characteristics of different of motors, reversing direction of rotation, controlling motors, and NEC wiring requirements. (This is a four hour continuing education class.)

**Residential NEC Review** A four hour class that reviews the National Electrical Code (NEC) requirements for single and multi family residences. (This is a four hour continuing education class.)

**Blue Print Reading** This class is similar to the Residential NEC Review but includes reading of residential house plans and the interpretation of views, symbols and diagrams. (This is a four hour continuing education class.)

**Residential NEC** A class based on the students needs as related to the latest NEC, eight hours minimum. This class is for individuals that are interested in becoming electricians that have not been exposed to the NEC. (This is a four hour continuing education class.)

**NEC Calculations** A four hour class devoted to various calculations required by the NEC. Examples are wire size, overcurrent size, conduit fill, box size, motor controls, sizing of grounding equipment and many others. (This is a four hour continuing education class.)

**Motor Controls** A four hour class that introduces students to various manual and automatic motor control devices. Emphasis is placed on how to select the appropriate device, proper installation and NEC requirements. (This is a four hour continuing education class.)

**Power Quality** This is an overview of power quality issues and how to protect against them. (This is a four hour continuing education class.)

**Surge Protection** how to protect sensitive electronic equipment from voltage surges and sags. (This is a four hour continuing education class.)

**Grounding, NEC 250** An overview of the NEC requirements for grounding electric systems. (This is a four hour continuing education class.)

**Generator Principals** Reviews the principals of generator operation, code requirements for wiring generators, critical issues in applications, and future sources of generation. (This is a four hour continuing education class.)

**Residential Power Quality** A look into the electronics in appliances in a new home, and how these new systems impact the electrical systems in the home. (This is a four hour continuing education class.)

**NEC Review** A four or eight hour class that is devoted to reviewing the latest edition of the National Electrical Code (NEC). (This is a four hour continuing education class.)

**OSHA Voluntary Compliance** – Two days; 10-hour wallet card is included per student.

**OSHA & Electrical Safety** Three day course for employees and management. 2 days – OSHA, 1 day - Electrical Safety. OSHA 10 hour wallet cards are included in this class.

**OSHA - Electrical Safety - Grounding** Three day class for employees and management. 1 days – OSHA, 1 day - Electrical Safety, and 1 day – Grounding OSHA 10 hour wallet cards are included in this class.

**Review for taking the Georgia Electrical Licenses Exam** This class is usually a two and one half day class that helps students prepare for the license exam.

**Review for taking the Georgia HVAC Licenses Exam** This class is usually a two and one half day class that helps students prepare for the license exam.

**NEC HVAC** This class is a four hour class that reviews the sections of the NEC that relate to Refrigeration and Air Conditioning. (This is a four hour continuing education class.)

**Manual J** A four to eight hour class that helps students become familiar with determining the heat loss and gain from various structures.

**Manual D** A four or eight hour class that helps students become familiar with determining the size of duct work needed for proper heating and cooling structures.

**OSHA** Provide 10 & 30 hour voluntary compliance classes for Construction and General Industry.

**Other Class** Classes developed and tailored for individual and industrial needs.