

## Electrical Safety and Awareness

**Electrical Safety and Awareness** examines the hazards associated with electricity and safety measures to reduce the risk of injury.

**The course consists of the following units:**

Unit One	Theory
Unit Two	Electrical Flow and Barriers
Unit Three	Induction
Unit Four	Electricity and the Body
Unit Five	Step and Touch Potentials
Unit Six	Safe Limits of Approach

### Course Objectives:

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

- Identify and describe the three basic properties of electricity;
- Understand the risk posed by a Potential Difference;
- Identify common insulators of electrical equipment;
- List the elements of the Safety Basics Principle;
- Explain the terms “bonding” and “grounding”;
- Identify the two types of induction;
- Understand the factors that determine the severity of a shock;
- Recognize the different effects a shock victim would experience with varying amounts of current;
- Know what is meant by the term “Potential Gradient”;
- Explain the proper way to use control mats;
- Identify different types of electrical equipment and the voltages at which they operate;
- Decide whether equipment is live or grounded in various situations;
- Know how to determine the operating voltage of equipment;
- Understand the limits of approach;
- Recognize the safe limits of approach for workers of various training and qualification levels.

### Evaluation Process:

At the end of each module, there is a quiz that each course participant must challenge and successfully complete with a passing grade before continuing to the next content module.

### Course Duration:

The course is self paced so course duration will depend on the individual participant and their prior knowledge base with the course subject matter. On average, the course will take between 2-5 hours to complete