

## Basic Electrical Safety

This two-day introductory electrical safety course is primarily designed for those who do not have a background in electricity but are required to have safety training.

As a prerequisite to understanding the concepts of electrical safety, students are first introduced to basic electrical principles. Students then learn valuable information regarding OSHA 1910 and electrical safety.

### I. Introduction

### II. Fundamental Concepts of Electricity

- Conductors and Insulators
- Voltage, Current and Resistance
- Common Electrical Terms

### III. Effects of Electricity

- Factors Affecting the Severity of Shock
- Current and Voltage Levels
- Rescue and First Aid

### IV. Hazard Awareness

- Hazards in Power Systems
- Maintenance Hazards

### V. OSHA 1910

- General Requirements ( 1910.303)
- Qualified and Unqualified Work Training (1910.332)
- Selection and Use of Work Practices (1910.333)
- Use of Equipment (1910.334)
- Safeguards for Personnel Protection (1910.335)