



## Technical Diagnostic Services Training Institute

### OSHA ELECTRICAL SAFETY 8 HOURS

- Learn the basics of electricity
- Learn power systems basics
- Learn the correct terminology for electrical power systems
- Eight (8) hour course with some demonstration

#### Description:

This one-day course covers definitions and terminology for electrical power systems. An overview of basic electricity and a simple in-plant power system is given using practical applications as examples. Typical in-plant equipment is covered including motors, motor-control centers, protective relays, circuit breakers, transformers, batteries and others.

Presentations will be focused on the needs of the participants, rather than a strict outline. Participants are asked to ask questions regarding power systems and their operation and components.

#### Outline:

##### I. Terms and Definitions

- A. Power
- B. Resistance vs reactance
- C. Capacitance
- D. Common terms

##### II. Power System Basics

- A. Three-phase power
- B. Wye connections
- C. Delta connections
- D. Typical components

##### III. An Overview of Power System Operation

- A. Components and functions
- B. Transmission
- C. Distribution
- D. In-plant systems
- E. Protective devices

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