



## Technical Diagnostic Services Training Institute

### Industrial Electrical Safety 24 Hours

#### Course Description:

This course is an accident-avoiding prescription for electricians, safety managers, and inspectors, and engineers dealing with electricity any voltage level. Presenting crucial protective safety strategies for industrial and commercial systems, this course references all major safety codes (OSHA, NEC, NESC, and NFPA) where appropriate, perfect for a company's electrical safety training and reference needs.

**Prerequisites:** Basic AC and DC electrical knowledge.

#### Outline

- I. Hazards of Electricity
  - A) Shock
  - B) Arc
  - C) Blast
  - D) Effects
  - A) Safe Switching of Power Systems
  - B) Lockout-Tagout
  - C) Flash Hazard Calculations
- II. Electrical Safety Equipment
  - A) General Inspection and Testing for Electrical Safety Equipment
  - B) Personal Protective Equipment(PPE)
  - C) Use and Care of PPE
  - D) Insulated Tools
  - E) Safety Grounding Equipment
  - F) Barriers and Signs
  - G) Safety Tags, Locks and Locking Devices
- III. Safety Procedures and Methods
- IV. Grounding of Electrical Systems and Equipment
- V. Electrical Maintenance and Its Relationship to Safety
- VI. Regulatory and Legal Safety Requirements and Standards
  - A) NESC, NEC, ANSI/NFPA 70E, OSHA, ASTM
- VII. Accident Prevention, Accident Investigation, Rescue, and First Aid

**TDSTI**

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