

# **ELECTRICAL SAFETY FOR UNQUALIFIED ELECTRICAL WORKERS (OSHA 1910 & NFPA 70E 2013 STANDARDS)**



Significant hazards exist to both personnel and equipment with generation, transmission, and distribution of electricity. The proper use of safety equipment, knowledge of electrical hazards, and knowledge of how to respond in the event of an electrical incident are absolutely critical for all electrical workers.

This electrical safety program will provide the student with the information needed to comply with the latest OSHA regulations and NFPA 70E requirements. The purpose of this course is to provide staff personnel an understanding of the hazards associated with working on or around electricity and to identify the most effective ways to minimize the risks associated with the hazards. Those who work near electrical equipment as well as supervisors, managers and safety personnel should attend this course.

**Course Duration: 4 hours**

## **INTRODUCTION**

Course Objectives  
Required Worker Safety Training

## **CODES AND STANDARDS**

Federal Safety Regulations (OSHA)  
Enforcement Agencies  
Formal Company Policies

## **SAFETY FUNDAMENTALS**

Safety Engineering  
Safety Program Essentials  
Elements of Safety Programs

## **ELECTRIC SHOCK**

Nature of Electric Shock  
Quantifying the Shock Hazard  
Mitigation of Shock Hazard  
Protective Equipment  
Rescuing a Shock Victim

## **ARC FLASH AND BLAST**

Nature of Arc Flash and Blast  
Personal Protective Equip. Cal/cm<sup>2</sup>  
Boundaries and Incident Energy

## **SAFE WORK PRACTICES**

Employer Responsibilities  
Employee Responsibilities  
Contractor Responsibilities  
Equipment Working Clearances  
Performance of LOTO Procedures  
Release from LOTO & Re-energization

## **SPECIAL SITUATIONS**

Low Voltage Systems  
Overhead Maintenance  
Enclosed Spaces

## **MAINTENANCE FOR SAFETY**

NETA MTS  
SOPs  
Formal Policy Standards