

ELECTRICAL SAFETY FOR CAL-OSHA TITLE 8 & NFPA 70E 2015 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 essential qualified electrical workers.

This electrical safety program will provide the student with the information needed to comply with the latest **CAL-OSHA** Title 8, Subchapter 5 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 on or near electrical equipment as well as supervisors, managers and safety personnel should attend this course.

(8 Hours)

INTRODUCTION

Course Objectives
Required Worker Safety Training

CODES AND STANDARDS

Cal-OSHA, Title 8, NFPA 70E
Enforcement Agencies
Formal Company Policies

SAFETY FUNDAMENTALS

Safety Engineering
Safety Program Essentials
Elements of Safety Programs

ELECTRIC SHOCK

Nature of Electric Shock
Shock Severity Factors
Response to 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
Preventions from the Arc Flash/Blast
Personal Protective Equip. Cal/cm²
Boundaries and Incident Energy

SAFE WORK PRACTICES

Employer Responsibilities
Employee Responsibilities
Contractor Responsibilities
Equipment Working Clearances
Preliminary Planning
Selection /Use of Safe Work Practices
Safe Switching Procedures
Performance of LOTO Procedures
Application of Grounding Cables
Release from LOTO & Re-energization
Work On or Near Energized Equipment
Safe Use of Test Equipment
Interlocks - Verification

APPLICABLE INDUSTRIES

Water Treatment Facility
Utilities, Power Plants
Manufacturing
Data Centers
Production Support

MAINTENANCE FOR SAFETY

NETA MTS
JTA – JHA - SOS
Formal Policy Standards