



NFPA 70E-Electrical Safety & Arc Flash

Arc flash dangers such as shock, electrocution, and arc blast are serious hazards. Hazard awareness training, mitigates the risk of serious bodily injury or property loss. NFPA 70 E Electrical Arc Flash is the leading standard for determining electrical hazards and protecting employees. NFPA 70 E will be coupled with pertinent OSHA standards that apply to the work employees are performing. Case studies, power points, and video will be utilized in the program.

Duration: 4 or 8 Hour Program

ELECTRICAL HAZARDS AND ACCIDENT PREVENTION PROGRAM

Electrical Hazards
Voltage Level & Degree of Hazard
Causes of Electrical Accidents
Electrical Shock & Electric Arcs
Arc or Flash Burns
Accident Prevention Program

**FLASH PROTECTION BOUNDARY
AND LIMITS OF APPROACH**
Definitions of Boundaries and Spaces
Flash Protection Boundary
Limited Approach Boundary
Restricted Approach Boundary

ENERGIZED CIRCUITS
When is Energized Work Acceptable
Use of Energized Work Permits
Determining Safe Boundaries

TOOLS AND VOLTAGE DETECTORS
Live Line Tools – Types, Ratings, Care
and Maintenance
Voltage Detectors
Direct Contact Type & Proximity Type
Procedure for Safe Use of Voltage
Detectors

NFPA 70E

2009, 2012 & 2014 Updates
Definition of Qualified Persons
Definitions of an Unqualified Person
Overview of Pertinent Tables and
Calculations

**PERSONAL PROTECTIVE
EQUIPMENT (PPE)**
Flame Resistant (FR) Clothing
Layering of Clothing
Cleaning and Laundering of FR Clothing
Recertifying Arc Flash Products
Choosing FR Clothing and PPE
Flash Hood or Switching Hood
Hand & Foot Protection
NFPA 70E Hazard Risk Categories

LOCK OUT TAG OUT
Procedure Overview
Installation of Isolation Devices & Tags
Utilizing Log Sheets and Audit Forms
Protective Grounding