



Post-Arc Flash Analysis Safety Training

Arc flash dangers such as shock, electrocution, and arc blast are serious hazards. NFPA 70E, the National Consensus Standard for Electrical Safety in the Work Place, is the leading reference for determining electrical hazards and protecting employees. The standard recommends facilities perform an Arc Flash Analysis to better protect workers and equipment operators from the electrical hazards they face day-to-day by helping to mitigate the risk of serious bodily injury or property loss. Once an Arc Flash Analysis has been performed and labels are in place, it is important to ensure employees been properly trained on how to interpret label information so they are fully protected from varying equipment-specific hazards. An engineering firm-provided Arc Flash Analysis Report is loaded with useful information that, if fully understood, can be an important operational tool instead of being just filed away. This course will assist both the building's electrical infrastructure operator and their supervisors in detailed understanding of the Arc Flash Analysis Report. This knowledge will help prevent personnel injury or loss from a catastrophic arc flash event. Case studies, site-specific power points, video and equipment walk-downs will be utilized in the program.

Duration: 8 Hour Program

ARC FLASH ANALYSIS

- The Importance of Having the Analysis
- Case Study on Arc Flash Fatalities
- AF Analysis –vs- NFPA 70E Tables
- Electrical Shock & Electric Arcs
- How an Analysis Determines Incident
- Energy and Flash Protection Boundaries
- Understanding the Arc Flash Label and Term/Unit Explanation
- When the Labels Apply
- How to Best Utilize the Arc Flash Analysis Report Information for Operations

FLASH PROTECTION BOUNDARY AND LIMITS OF APPROACH

- Definitions of Boundaries and Spaces
- Protecting Unprotected Workers
- Flash Protection Boundary & Alerting Techniques
- Limited Approach Boundary
- Restricted Approach Boundary
- Prohibited Approach Boundary

ARC BLAST HAZARD

- Hazardous Attributes of an Arc Flash
- Theory Behind an Arc Flash
- Common Causes of an Arc Flash
- Factors that Affect Personnel Injury
 - Things We Can't Control
 - Distance
 - Protective Device Trip Times
- How to Minimize the Potential for a Blast
- Basic Calculation Methods
- Protection Methods when Equipment has HIGH (dangerous) Incident Energies

PERSONAL PROTECTIVE EQUIPMENT (PPE)

- NFPA 70E Hazard Risk Categories
- PPE Selection for Known and Unknown Incident Energy Levels
- How Each Article Protects the Worker
- Flame Resistant (FR) Clothing
- Layering of Clothing
- Laundering and storage of FR Clothing
- Choosing the Right FR Clothing and PPE
- Hand & Foot Protection
- What Not to Wear During an Arc Flash