



NFPA 70E-ARC FLASH



NFPA 70E - Arc Flash

Discusses specific hazards associated with electrical energy, recognizing the hazards, and the impacts of these hazards on the human body. The NFPA 70E standard is at the basis of the course and includes an introductory dive into the standard, its organization, and related topics such as safety training requirements, qualified persons, arc-flash labels, and establishing an electrical safe work condition. The course introduces a case study to emphasize discussion points.

Summary of Topics:

- NFPA 70E Introduction and Basic Requirements
- Qualified persons
- Hazards associated with electrical energy (Knowledge of, Impacts to body, Identifying Hazards)
- Establishing an electrically safe work condition
- Arc-Flash Studies and interpreting labels
- Introduction to short circuits, protective device settings, and incident energy
- Work involving electrical hazards
- PPE
- Boundaries
- Shock risk assessment
- Arc-Flash risk assessment (PPE Category vs. Incident Energy Analysis Methods)
- Safety requirements for specialty equipment (i.e., capacitors, batteries...)
- Case study / discussion
- Additional relevant topics:
 - IEEE 1584-2018 (calculations, arcing current, electrode configurations)
 - Equipment ratings
 - Electrical Safety Programs
 - More upon request to meet specific needs