

One-day OSHA/NFPA70E Safety Training

- Introduction and Registration
- Pre-Quiz -> Assess current level of regulatory knowledge and discussion of educational facility equipment and systems (Optional)
- Hazards of Electricity
 - ◆ -Shock
 - ◆ -Arc flash
 - ◆ -Fires
 - ◆ -Falls
- Overview of OSHA “Subpart S” General Industry Safety Related Work Practices
 - ◆ -Brief overview of OSHA/citations
 - ◆ -Application of standard
 - ◆ -Qualified vs. unqualified persons
 - ◆ -Training requirements
 - ◆ -Energized vs. de-energized (Lockout/tagout)
 - ◆ -Defining “high voltage”
 - ◆ -Unprotected overhead lines
 - -Approach distances
 - -Other controls
 - ◆ -Ancillary safety hazards
 - -Flammable/combustible Atmospheres
 - -Illumination
 - -Confined spaces
 - -Conductive items/apparel
 - -Housekeeping concerns
 - -Interlocks
 - ◆ -Equipment use
 - -Portable items
 - -Circuits (opening/closing/overcurrent protection)
 - -Test instruments
 - ◆ -PPE
 - ◆ -Alerting techniques
- Overview of OSHA “Subpart K” Construction Industry Safety-Related Work Practices
 - ◆ -Applicability
 - ◆ -General Installation Practices
 - ◆ -Marking and identifying disconnects
 - ◆ -Less than or equal to 600 volts
 - -Work clearances
 - -Guarding live parts
 - ◆ -Greater than 600 volts
 - -Enclosures and installations
 - -Work clearances
 - ◆ -Qualified persons considerations

- Overview of NFPA 70E – 2015 Safety Related Work Practices
 - ◆ -Application
 - ◆ -Qualified vs. unqualified persons
 - ◆ -Training requirements
 - ◆ -Rescue practices
 - -Removal from contact
 - -First Aid/CPR recommendations
 - ◆ -Energized electrical work permits
 - -Elements
 - -Authorization
 - ◆ -Arc flash protection boundaries
 - ◆ -Approach boundaries
 - -Limited
 - -Restricted
 - -Using the 70E tables
 - ◆ -PPE: Shock vs. arc flash
 - -Use of 70E tables
 - -Simplified approach vs. calculations
 - ◆ -Ground-fault circuit interrupters (GFI's)
 - ◆ -Hazard Assessment
 - -Shock
 - -Arc flash: default and short circuit duties
 - -Ancillary safety issues
- NFPA 70 – 2014 (NEC) labeling requirements
- Using Testing Equipment to determine voltages including hands-on exercise
- Elements of the Corporate Electrical Safety Program (if applicable)
- Review and Test