



Quality Energy Services

70E Compliance Class

Introduction

- Differences Between NFPA 70E and NFPA 70 (NEC)
- How this works with OSHA
- Purpose
 - ◊ 4 protective strategies

Safety Related Work Practices

- Responsibility
- Training requirements
 - ◊ Safety Training
 - ◊ Type of Training
 - ◊ Employee Training
- Safety Program
 - ◊ Hazard / Risk Evaluation Procedures
 - ◊ Job Briefing
- Working while exposed to Electrical Hazards
 - ◊ Energized Electrical Circuits and Circuit Parts
 - ◊ Working within Boundaries
 - ◊ Electrical Hazard Analysis
- Use of Equipment
 - ◊ Rated for what is being tested
 - ◊ Inspection
 - ◊ Verification, testing for energized circuits

Establishing an Electrically Safe Work Condition

- How / Process
 - ◊ Six steps
- Principle of LO/TO
 - ◊ Training
 - ◊ Plan
 - ◊ Control of energy
 - ◊ Identification
 - ◊ Voltage

- ◊ Coordination

Work Involving Electrical Hazards

- Justification
- Approach boundaries
- Energized Work Permit
- Arc Flash Hazard Analysis
 - ◊ Flash boundaries
 - ◊ PPE
 - ◊ Labeling
- Other precautions
 - ◊ Alertness
 - ◊ Blind Reaching
 - ◊ Illumination
 - ◊ Confined Spaces
 - ◊ Housekeeping

General Maintenance Requirements

- Qualified Persons
- One Lines
- Over-current devices
- Space around electrical devices
- Grounding and bonding
- Grounding of energized Conductors
- Safety equipment
- Clear spaces
- Identification of components and circuits
- Warning signs

Substations

- Enclosure
- Area enclosures
- Conductors and insulation
- Protective devices

Wiring

Controllers

Fuses and Circuit breakers

- Fuses

- Molded case circuit breakers
- Testing

Rotating Machinery

Hazardous locations

Batteries

Portable Electrical Tools

Maintenance of PPE