

Electrical Safety - NFPA 70E

Level 2 - Qualified Electrical Worker 2 - QEW 2

This course is designed to give workers the skill and knowledge to work in close proximity of electrical conductors and circuit parts. Students will understand the safe work practices needed to with shock hazards and arc flash hazards.

Topics:

- Understanding shock hazards.
- Creating an electrically safe work condition for shock hazards.
- Lockout/Tagout
 - What is Lockout/Tagout
 - Why is Lockout/Tagout important
 - When to Apply Lockout/Tagout
 - Interlocks vs. Lockout/Tagout
 - Why do Accidents Happen
 - What Roles do we have in a Lockout/Tagout Process
 - Identifying Lockout/Tagout Energy Sources
 - What are Lockout/Tagout Programs & Procedures
 - What are the Lockout/Tagout Steps & Applications
 - Explain Group Lockout/Tagout
 - How to incorporate a Shift & Personnel Change
 - How to Test & Adjust Machines
 - Managing Contractors
 - Management Changes
- Understanding arc flash hazards
 - What is arc flash and arc blast
 - Understanding arc flash labels
 - Required ppe
 - Inspection of ppe
 - Care and use of ppe
- Safe use of multimeters
 - Inspection of DMM
 - DMM Abbreviations, Symbols, and Terminology
 - DMM Displays
 - DMM Advanced Features
 - Measuring AC Voltage
 - Measuring DC Voltage
 - Measuring Resistance and Continuity Testing
 - Measuring AC and DC Current
 - Introduction to Ohm's Law and Power Formula
 - DMM Accessories
 - DMM Selection

HANDS ON ELECTRICAL SAFETY CLASS

STUDENTS ARE REQUIRED TO BRING THE FOLLOWING TO CLASS:

1. A METER
2. VOLTAGE RATED GLOVES - CLASS 1 OR CLASS 2
3. Minimum PPE Category 2

Course Length: 3 Days + 1 Day for Every 20 students

Prerequisites: None

Day 1

- Shock Hazards
- Lockout/Tagout
- Hands on exercises on LOTO

Day 2

- Safe use of multimeters
- Hands on exercises using multimeters

Day 3

- Arc Flash Hazards
- Inspection of ppe
- Hands on ppe inspection

Additional Testing Days

- Testing
- Hands on evaluations