

About Our 70E Training



- *We do not teach people to memorize OSHA regulations or the 70E standard language.*
- *Instead, we illustrate the concepts of how the regulations and standards should shape your everyday work procedures.*
- *We will accomplish this by doing numerous exercises in the classroom involving your electrical equipment as examples.*
- *We do not use contractors. Daryn would be your instructor.*
- *We don't sell any other products or services. Therefore, you won't get a sales pitch for an arc flash assessment, PPE, FR clothing, etc.*

Example Of Exercises We Will Do:

I choose a student and ask:

Scenario: You have to verify zero volts in a 480 volt control panel with an arc rating of 15.8 cal/cm² and an 87 inch arc flash boundary.

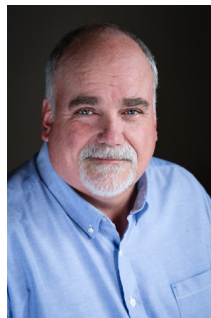
Based on what you are wearing in class right now:

- What clothing items must you remove?
- What can you leave on?
- What PPE do you have to add?

We also do exercises when there is no arc flash label using the category method



Your Instructor: Daryn Lewellyn



2019 marks 30 years of training experience for Daryn. After spending ten years working in industry himself, he has trained industrial electrical maintenance workers at facilities from coast-to-coast. He has developed and taught classes in industrial electricity, hands-on troubleshooting, 3-phase distribution, PLCs, 70E, arc flash, motors, and motor controls.

Written articles for The Journal of Chemical Health & Safety, EHS Today, Industrial Safety & Hygiene News, Electrical Construction & Maintenance, Occupational Health & Safety, among others.

Spoken at the American Society of Safety Engineers Professional Development Conference and Exposition on numerous occasions as well at their regional events. And the National Safety Council Congress and many corporate safety retreats.

He loves training.

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Arc Flash/70E Electrical Safety For Qualified Workers 6-Hours



What You Will Get Out Of This Course

Your employees attending this class will learn the latest in electrical safety standards and regulations. This training goes toward satisfying your OSHA training requirement and will produce workers more aware of the hazards and how to reduce the risk. This course reflects the evolution of NFPA 70E in the direction of risk assessment and hazard elimination. The hierarchy of risk controls will be discussed in a way that can be applied right away. Shock and Arc Flash hazard PPE selection is covered in detail. Real-world scenarios and OSHA citations will be discussed to see what the group thinks could have been done differently. OSHA 1910 as well as NFPA 70E will be discussed. We can incorporate your facility's electrical safety program, arc flash incident energy analysis report and equipment labeling, into the class if you'd like. Your people will walk out of this class better prepared for work involving electrical hazards.



Outline:

• Introduction

- Good News On Electrical Fatalities
- Three Legs Of Electrical Safety

• Risk Assessments

- Hazard, Risk & Risk Assessment
- Current & The Human Body
- Hierarchy of Risk Control

• Shock Risk

- Approach Boundaries
- Gloves - Insulated Tools
- EH - DI Boots
- GFCI Protection
- Permanent Electrical Safety Device(PESD)
- Exercises

• Test Equipment

- Cat I - II - III - IV
- Common Mistakes
- Test-Before-Touch
- Non-Contact Voltage Detectors
- Live-Dead-Live Test

• Qualified Worker

- Training
- Contact Release
- Emergency Response

• Electrical Safety Program

- Job Safety Planning
- Job Briefing
- Energized Electrical Work Permit(EEWP)
- Exemptions

• Arc Flash Risk

- Arc Flash Boundaries
- PPE Category Method
- PPE Category Method Limitations
- PPE Incident Energy Analysis
- PPE Incident Energy Analysis Limitations
- Exercises
- Current Limiting Fuses
- Arc Rated PPE
- Understanding Incident Energy Analysis Project
- Equipment Labeling

Who Should Attend:
*Perfect For Maintenance &
Repair Personnel
Engineers
Supervisors*



WARNING

Arc Flash and Shock Hazard
Appropriate PPE Required

480 VOLTS AC

15.8 cal/cm² Available Incident Energy @18 Inch Working Distance

87 Inches
00
42 Inches
12 Inches

Arc Flash Boundary
Insulated Glove Class
Limited Approach Boundary
Restricted Approach Boundary

Equipment ID: Press 6 Fed From: MCC-2 5/10/18



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