

ARC FLASH

FIELD ANALYSIS AND DATA COLLECTION

WHAT YOU WILL LEARN:

This course is designed to provide the knowledge needed to gather data on your electrical system that will be used to complete the engineering analysis for NFPA 70E 130.2. This course will teach you the safe and efficient way to gather your own data, while also pointing out what is not covered under the standard saving you time and money.

Prerequisite: None

Standard Class Size: 15

Program Length: 8 hours

CEU's: .8

PROGRAM TOPICS:

I. General Overview of What is Involved

- Organization
- Order of Collection
- How to recognize an Arc Flash Exposure
 - What Gets Labeled, What Doesn't.
- Safety While Collecting
- Importance of Proper Panel Schedules
- What to do if you Just Can't Get Some Data
- What not to collect
- Safety Concerns as a result of a Poor Field Work

II. Dealing with Utilities

- What to ask
- How to Ask
- Who to Ask

III. Transformers

- Transformer Name Plates
- Recording the Type of Transformer
- Fans
- Small Transformers
 - The 125kva Rule

IV. Conductors

- Collecting
 - Size
 - Length
 - Raceway Type
 - Material

PROGRAM TOPICS (CONTINUED):

V. Protective Devices

- Fuses
 - What to Collect
- Circuit Breakers
 - What to Collect

VI. Switchgear

- How to collect Breaker Data
 - What is Important
 - Safety Concerns With Switchgear
 - Breaker Types
 - Understanding Breaker Settings

VII. Switchboards

- What to Collect
- What not to Collect
- Safety Concerns
- Instantaneous Trips
- Main or Main Lug Only
- Feed Through Lugs

VIII. Bus Ducts

- How to collect
- Distance Measuring
- How to Number Bus-Heads
- Safety Concerns

IX. Disconnects

- What to Collect

X. Motor Control Centers (MCC)

- How to collect
- Safety Concerns
- Identifying
- Arc Resistant Equipment

XI. OEM Control Panels

- How to collect
- Safety Concerns
- Simple Modifications to Reduce Hazards
- Multiple Feeds Feeding Multiple Loads, How To Handle



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