



### AT-A-GLANCE

#### DAY TWO OVERVIEW

- 2024 NFPA 70E Chapter 2 – Safety Related Maintenance Requirements
- 2019 NETA Maintenance Testing Specification
- 2023 NFPA 70B

## Day Two – 2024 NFPA 70E Chapter 2: Safety-Related Maintenance Requirements



### 2024 NFPA 70E CHAPTER 2 - SAFETY RELATED MAINTENANCE REQUIREMENTS

- Practical safety-related maintenance requirements for electrical equipment and installations in workplaces as included in 90.2
- Identify maintenance directly associated with employee safety
- Describe how maintenance is defined as preserving or restoring the condition of electrical equipment and installations, or parts of either, for the safety of employees who work where exposed to electrical hazards
- Specific components discussed include, but are not limited to:
  - Single-line drawing interpretation and data
  - Short circuit current and coordination considerations
  - Overcurrent protective devices
  - Power cables
  - Switchgear
  - Power and distribution transformers
  - Power circuit breakers
  - Molded/insulated case circuit breakers
  - Fuses

### Day Two - Continued



#### 2024 NFPA 70E CHAPTER 2 - Continued

- NFPA 70B referenced for maintenance and testing methods (2023 NFPA 70B Chapter 11 considerations)
- Specific equipment type testing requirements and interval frequency of testing (2023 NFPA-70B 9.2 Frequency of Maintenance)
- 2019 NETA maintenance testing specification results interpretation and recommendations
- How “failed” test results and/or inadequate maintenance impact arc flash energies
- What constitutes an effective EMP Program in a facility (2023 NFPA 70B 4.2 Electrical Maintenance Program)
- Planned inspections requirements of an EMP program (2023 NFPA 70B 4.5)



#### 2019 NETA MAINTENANCE TESTING SPECIFICATION

- Maintenance testing frequencies
- Visual/mechanical inspections
- Electrical tests
- Functional tests
- Specific test instruments
- Results-limits and interpretations
  - Positive results
  - Negative results
  - Courses of actions
  - Developing action plans

