Empower *Training Services*

AT-A-GLANCE

OVERVIEW:

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

2023 NFPA 70B Standard For Electrical Equipment Maintenance

2023 NFPA 70B STANDARD FOR ELECTRICAL EQUIPMENT MAINTENANCE

- Equipment owner responsibilities for EMP Program in a facility (2023 NFPA 70B 4.2 Electrical Maintenance Program)
- Planned inspections requirements of an EMP program

  (1) Potential of equipment failure to endanger or threaten personnel safety

  (2) Manufacturer's recommended service and maintenance practices and procedures

  (3) Operating environment

  (4) Operating load conditions and equipment rating

  (5) Failure and repair of equipment causing extensive downtime and lost production dollars

  (6) Equipment condition

  (7) Production and operating schedules

  (8) Failure history

  (9) Inspection history

- Chapter 7 Fundamental Tests requirements

- Chapter 8 – Field Testing and Test Methods

  ○ 8.3 – Testing Categories

  ○ 8.4 – Qualifications of Testing Personnel

  ○ 8.5 – Test Equipment and Tools

  ○ 8.6 – Test Records

  ○ 8.7 – Condition of Maintenance Indication

- Chapter 9 – Maintenance Intervals
  - 9.2 – Frequency of Maintenance
  - 9.3 – Equipment Condition Assessment

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
- Impacts on arc flash energies
- Specific equipment types
- Owner responsibilities
- Qualifications of testing personnel

2019 NETA MAINTENANCE TESTING SPECIFICATION – RESULTS INTERPRETATION

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