

NFPA 70B Training

Maintenance of Electrical Equipment for Safety & Reliability
Training Course



Ensuring Safety and Compliance

Since NFPA 70B's inception in 1973, it has provided non-mandatory suggestions and recommendations for maintaining electrical equipment. As of 2023, those recommended practices evolved into an enforceable standard.

Electrical maintenance for safety of personnel and environment is the key focus of this standard. NFPA 70B identifies what is to be maintained, what maintenance is to be performed, and the expected intervals for performing electrical preventive maintenance.

Now is the time to update your Electrical Maintenance Program (EMP) to ensure your facility is compliant. Section 4.2.1 of the *NFPA 70B Standard for Electrical Equipment Maintenance* states: "The equipment owner shall implement and document an overall EMP that directs activity appropriate to the safety and operational risks." It is now required that EMPs be audited at intervals not to exceed five years.

Who Should Attend Training?

Anyone responsible for electrical equipment and safety of personnel such as:

- Operations Managers
- Reliability Managers
- Environmental, Health & Safety Managers

Next Level Reliability

To learn more about ERS Training Services, please contact us at 1 877-468-6384 or visit ERS.vertiv.com

Course Overview

This course is designed to provide an in-depth look at the 2023 NFPA 70B requirements as they pertain to Electrical Maintenance Programs (EMP) and preventive maintenance strategies. We will review some of the key NFPA 70B revisions including maintenance frequency modifications, periodic maintenance procedures, fundamental tests, system studies and much more.

Course Duration: 8 Hours.

One Day Seminar Course Outline:

Components

- Safety - NFPA 70E review
- Identification of personnel
- Analysis of equipment
- Procedures
- Inspection intervals
- Documentation
- Processes, review and audits

Personnel

- EMP coordinator
- Maintenance personnel
- Training requirements of personnel

Drawings & Studies

- Single-line drawings
- Short circuit and coordination studies
- Load flow
- Reliability studies
- Incident energy analysis

Equipment

- Switchgear
- Circuit breakers and switches
- Rotating machinery
- Stand-by systems

Fundamental Tests

- Conductor terminations & connections
- Insulation resistance
- Infrared analysis

Test Methods & Intervals

- Testing category types
- Risk assessment considerations
- Equipment condition assessment
- Condition of maintenance indications
- Maintenance frequency modifications
- Hazardous location electrical equipment

Procedures

- Inspection
- Cleaning
- Lubrication
- Mechanical services
- Electrical testing

Annexes & Reference Materials

- Forms
- Reliability centered maintenance
- Power quality
- Electrical disaster recovery
- Primary contact matrix

Continuing Education Units

Upon successful completion of the assessment, you will receive **0.8 CEU** credits. Our CEUs are IACET-Certified.

Training Materials

Electrical Reliability Services (ERS) will provide all necessary training materials during the live webinar as digital assets.