

Preventive maintenance Electrical Engineering Services & Systems



Maximize the safety and reliability of your electrical assets

Chapter 2 of NFPA 70E® Standard for Electrical Safety in the Workplace, which is the leading industry consensus standard used to comply with OSHA safe work practices, has comprehensive maintenance requirements “for the safety of employees who work where exposed to electrical hazards.” Worker safety relies on well-maintained overcurrent protective devices and electrical equipment. Improperly operating overcurrent devices could affect the incident energy the electrical worker is exposed to during an arc flash event, creating a dangerous situation.

Why preventive maintenance?

Electrical equipment requires systematic maintenance to ensure maximum performance and in-service life. A periodic electrical maintenance program is essential for minimizing potential catastrophic property damage, personal injury risk, unscheduled downtime and total operating costs. Periodic maintenance, including testing, inspection, adjustment and repair should be performed on both protective devices and electrical assemblies.

For normal operating conditions, an initial inspection is recommended after 6 months of service to determine the frequency of maintenance. However, additional factors, such as operating environment, equipment age, state of repair, general condition and application are all considerations in determining an effective maintenance interval.

Is preventive maintenance required?

Yes. Maintenance for certain equipment is required in the National Electrical Code®, NFPA 70E, NFPA 99 Health Care Facilities Code and NFPA 110 Standard for Emergency and Standby Power Systems. The requirement refers to equipment that supplies loads vital for life safety, public welfare and national security. While general electrical maintenance is not mandated for electrical systems not covered by these standards, reliable power is essential to conduct business and manufacture any product.

Why work with Eaton?

Eaton's Electrical Engineering Services & Systems team is the ideal complement to your existing in-house electrical maintenance staff. For more complex projects, we can act as a single point of contact for all of your facility's ongoing maintenance needs.

Because Eaton is truly universal in presence, scope and capability, we offer the opportunity to assist you, whether you operate a single local facility or multiple facilities on a regional, national or international level. Our field service representatives are equipped to support any of your electrical distribution equipment—**regardless of the original electrical equipment manufacturer.** As a dedicated service extension, Eaton's Electrical Engineering Services & Systems team can establish and maintain consistent levels of availability, reliability and performance across your operations.



What types of preventive maintenance and services does Eaton offer?

Eaton's Electrical Engineering Services & Systems team offers a full breadth of maintenance services including:

- Electrical maintenance testing services—**regardless of the original electrical equipment manufacturer**
- Arc flash risk assessments and training
- Power quality, harmonic and grounding studies
- Arc flash mitigation solutions
- Predictive and calendar-based preventive maintenance programs
- Spare part kits, modifications and upgrades for obsolete equipment
- On-site training and technical support
- Parts and labor service contracts with on-site response times

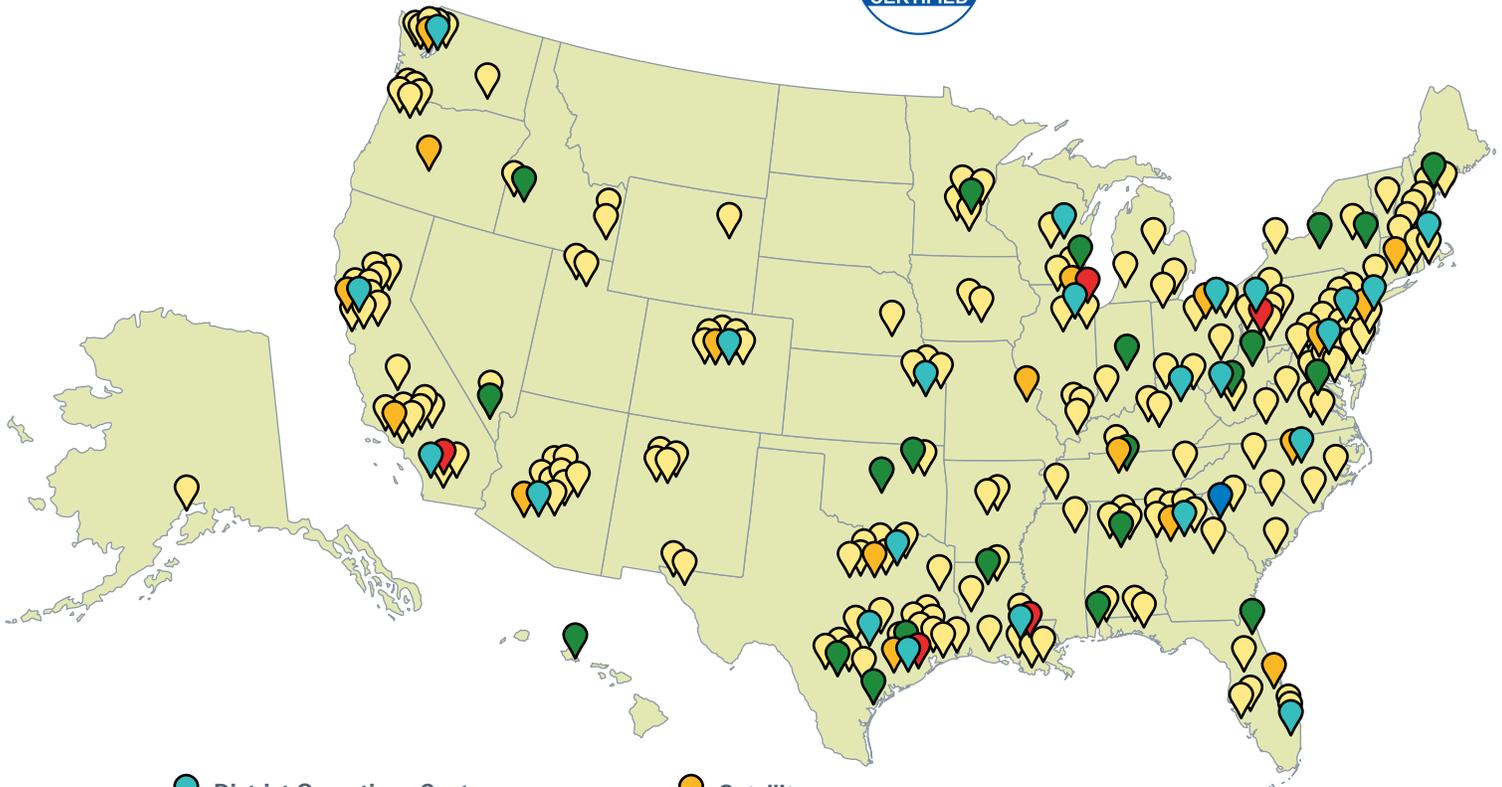
In addition to scheduled maintenance programs, Eaton offers a world-class service and emergency response capability with 24/7 monitoring so that you, and your customers, can have peace of mind.

Eaton utilizes the Electrical Power Testing Certification Program, from the National Institute for Certification in Engineering Technologies® (NICET®), to certify field personnel in testing power distribution equipment per IEEE®, NEMA®, NFPA and NETA standards. The Electrical Power Testing Certification Program is designed for field service personnel who inspect, test, perform periodic maintenance, and evaluate electrical power distribution equipment for acceptance for service, continued serviceability, or required maintenance. This program provides an independent verification of the capabilities, knowledge and experience of our field personnel for electrical testing. NICET is a not for profit division of the National Society of Professional Engineers (NSPE).

For 24/7 assistance, call **1-800-498-2678**.



We support and encourage NICET certification.



-  District Operations Center
-  Power Breaker Reconditioning Center
-  Power Breaker Center
-  Satellite
-  District Operations Center Satellite
-  Field Resources ¹

¹ Locations subject to change.



Visit Eaton.com/service to learn more about Eaton Electrical Engineering Services & Systems.

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