

# Training Services

Electrical Training Courses for Safety and Systems Operations



## Empower Your Team to Mitigate Risk and Ensure Regulatory Compliance

The maintenance and optimization of physical assets is essential to protecting your facility's operations. Failing componentry makes itself known quickly, and facilities are quick to provide immediate attention. Insufficient training may take longer to show its impact, but can cause significant damage to a facility's safety, operational integrity, and regulatory compliance.

Operating an effective internal training program can be challenging, with evolving compliance standards necessitating a considerable dedication of time, talent, and expertise. ERS' dedicated training team has leveraged decades of experience in developing coursework that maintains the strictest compliance to all regulatory standards. Offered as both remote and in-person sessions, hundreds of highly satisfied customers have benefited from ERS' expert, customizable, and cost-effective safety, maintenance, and systems training courses.

### Next Level Reliability

To learn more about ERS Training Services, please contact us at 1 877-468-6384 or visit [ERS.vertiv.com](https://www.ers.vertiv.com)



## Overview

ERS offers courses in two complimentary categories: Electrical Safety and Maintenance Training and Electrical Systems Training.


**Electrical Safety and Maintenance Training** offers multiple levels of education regarding core electrical concepts, common components, electrical hazards, safe work practices, and compliance with industry codes and regulations. Courses include information about the tools and resources necessary for testing and troubleshooting, as well as mitigation techniques for site and equipment-specific safety hazards.

**Electrical Systems Training** offers education on electrical power system management and safety in different environments including data centers, healthcare facilities, water treatment plants, and substations. Topics such as electrical system operation, maintenance requirements, troubleshooting approaches, protective relays, and control systems are covered.



All ERS safety and systems courses are developed, updated, and taught by seasoned professionals and are eligible to earn IACET-Certified Continuing Education Unit (CEU) credits. Upon successful completion of the course assessment, participants will receive 0.8 CEU per day of training.

## Electrical Safety and Maintenance Training

 **Electrical Safety for NFPA 70E Arc Flash and OSHA 1910 - 1-Day Course - 0.8 CEU Credits**

Principles of arc flash protection, and the fundamentals of electrical hazards, safe work practices, and risk mitigation.

 **Electrical Safety Training for NFPA 70E – 2-Day Course - 1.6 CEU Credits**

Safety-related work practices and maintenance requirements. Provides a classroom education that meets the requirements of NFPA 70E and affords employers the information and compliance standards necessary to assert worker qualification.


 **Electrical Equipment Maintenance for NFPA 70B– 1-Day Course - 0.8 CEU Credits**

Provides an in-depth look at the 2023 NFPA 70B requirements as they pertain to Electrical Maintenance Programs (EMP) and preventive maintenance strategies.


## Electrical Systems Training

 **Essential Electrical Theory and Concepts – 2-Day Course - 1.6 CEU Credits**


Core electrical concepts and common electrical components. Anyone seeking an essential understanding of electrical theory and componentry should attend.

 **Data Center Facilities – 2-Day Course – 1.6 CEU Credits**

Focused on electrical power systems management and safety in data center facilities. Data centers are complex and remaining knowledgeable on how to support their electrical power systems and components is critical.

 **Healthcare Facilities – 2-Day Course – 1.6 CEU Credits**

Provides an understanding of electrical system operation, maintenance requirements, and troubleshooting approaches for managing healthcare facility power systems with reliability and safety.

 **Water Treatment Plants – 2-Day Course – 1.6 CEU Credits**

In addition to electrical system operation, maintenance, and troubleshooting, this course addresses electrical system design, instrumentation, and control systems that are utilized in daily operations.

 **Substations – 2-Day Course – 1.6 CEU Credits**

Introduces the basic operating concepts of protective relays for generation, transmission, and distribution of electrical systems. Utilizing ANSI and IEEE standards, participants are given a core understanding of how various relays protect specific applications of an electrical system.

### Materials

Electrical Reliability Services (ERS) will provide all necessary student manuals, supplemental materials, video presentations, and demonstration equipment. A "Certificate of Completion" is provided for students meeting or exceeding minimum course standards. Minimum post-instruction examination standards vary by course.

Full course descriptions and content outlines are available at [ERS.vertiv.com/en-us/services/safety-training/](https://ERS.vertiv.com/en-us/services/safety-training/)