

American Recovery  
and Reinvestment Act

**Electrical Solutions**

Modernization  
& Renovation

New Construction

Energy Efficiency

# Partner with Eaton – Training for Tomorrow's Power Systems

The American Recovery and Reinvestment Act (ARRA) envisions major upgrades in America's power systems. Those updated systems will need better-trained personnel to operate and maintain them.

The ARRA calls for modernizing and updating America's power systems. The Act's investments will help governments operate more energy-efficient buildings, renovate power systems to help meet modern needs for clean, reliable power and lower the cost of government operations far into the future.

Upgraded equipment demands new skills from electrical personnel. More experienced staff will need to learn how to operate and maintain modern equipment, while those new to the workforce need to have a solid foundation in the basics of working with electrical power. And everyone must learn to work with new smart grid technologies.

Eaton has been offering power systems training for decades, and our expert trainers can work with your organization to offer the training the ARRA requires.

#### **Eaton Electrical Services & Systems Training**

Eaton's Electrical Services & Systems team offers a wide-range of training that can help workers meet these challenges. We offer training in all areas of electrical power distribution systems, including:

- Electrical safety practices
- Equipment operation and maintenance for Eaton and third-party equipment
- Equipment installation for Eaton and third-party equipment
- Equipment reconditioning and renovation for Eaton and third-party equipment
- "Smart grid" technologies

#### **Experienced Instructors**

Seasoned Eaton engineers deliver our training. Our instructors do more than teach; they're also service engineers who work with customers every day. The technique they use at the customer's jobsite today is the same one they'll teach in the classroom tomorrow.

#### **Up-to-Date Curriculum**

Our courses rest on a solid foundation of knowledge drawn from Eaton's decades of experience in the electrical equipment industry. But bring you the most up-to-date information and the latest techniques. With our comprehensive PowerChain Management approach to power systems, we are an industry leader in installing, operating and maintaining environmentally sound products. And we share our best practices with students in our courses.

#### **Hands-On Training**

Our instructors work side-by-side with students in hands-on training. You'll learn techniques by practicing on actual equipment. We offer training on both Eaton equipment and equipment from third-party manufacturers.

#### **Wide Choice of Training Venues**

We offer training in a wide choice of locations. You can attend classes in a well-equipped Eaton training lab, a simulated operating environment as realistic as we can make it. Or you can ask to have a course presented at one of the more than 20 Eaton Satellites and Service Centers throughout the U.S. If you prefer, we'll customize one of our courses for your equipment and operating environment and present it on-site at your facility.

#### **Partner with Eaton for Training**

Eaton offers custom training and training partnership opportunities for technical schools, community colleges and local trade unions. You can pair classroom discussions of theory with hands-on training in our fully-equipped teaching facilities for electrical power systems.

- Electrical and arc flash safety
- Power Xpert, PowerNet and Powervision basics
- Power quality monitoring
- Switchgear assemblies and medium voltage motor controllers
- Transformer maintenance



Powering Business Worldwide



**ACT NOW!**

E-mail [CHTraining@eaton.com](mailto:CHTraining@eaton.com) to partner with Eaton to offer power systems training.



Eaton Electrical Services and Systems has been approved as an Authorized Provider by the International Association for Continuing Education and Training (IACET), 1760 Old Meadow Road, Suite 500, McLean, VA 22102.

Authorized Provider Number 921

### Enhance Worker Safety

Electricity presents a constant stream of potential hazards, like electrical shock, fire and the sudden, dangerous release of electrical energy called an arc flash. Eaton offers a wide selection of courses that teach employees about the risks of working with electricity and how to reduce those risks.

#### Training topics

- Understanding arc flash and other hazards
- Current industry safety standards
- Safe work practices
- Working on live parts
- Choosing and using personal protective equipment
- Personal protective equipment

### Keep Power Flowing

When power system equipment fails, an organization's productive work stops. Eaton training courses in equipment operation, maintenance and troubleshooting help keep power system equipment operating smoothly and efficiently.

#### Training topics

- Mechanical and visual inspections of equipment
- Testing equipment performance
- Cleaning, lubricating and other routine maintenance
- Troubleshooting common equipment problems

### Modernize Equipment

Installing and configuring equipment correctly can add years to equipment's useful life. Eaton offers training in installing and commissioning many different kinds of electrical equipment.

#### Training topics

- Installing panelboards, switchboards and other equipment
- Starting up and commissioning equipment

### Customize Training to Your Needs

If your power system includes equipment from many different manufacturers, your operators must learn maintenance procedures for each brand of equipment. Give us your choices of training topics and procedures, and we'll create training that's customized for your equipment and your employees.

#### Training topics

- Training customized for your operations
- Maintenance procedures for circuit breakers, switchboards, switchgear, transformers and other equipment
- Experienced instructors familiar with your equipment

### Master Smart Grid Technologies

New smart grid technologies for power systems mean more software, more digital components and more automated sensors. Eaton training helps new employees and seasoned veterans upgrade their skills to master the latest technologies.

#### Training topics

- Power Xpert metering and monitoring technology
- PowerNet and Powervision software

### Energy Management Training Courses and Seminars

The direct cost of your product or products engineered or manufactured is influenced by the cost of energy used to produce the product. Energy wastes can be identified, measured and corrected by focusing on those areas that can be controlled. Our energy management engineers and staff can help identify, quantify and verify your true costs of energy in each piece of equipment in your plant, where your energy wasters are, and what to do to reduce these wastes.

#### Eaton's Energy Efficiency and Management Awareness Training

Eaton can develop or provide customized training on energy topics such as:

- Understanding energy management programs and planning

- How to read and understand energy audits. How to optimize what you get from energy audits
- Understanding "energy" —from the regulatory perspective—EPACT, EISA, and Executive Order
- What is Cap and Trade – and how should we prepare for it?
- What is the relationship between greenhouse gas reduction, Cap & Trade, regulatory requirements, etc.
- Energy Conservation Project funding options – explored
- Creating an energy culture

*For Contractors – servicing residential and light commercial markets – Eaton can provide training on the following:*

- Residential energy assessments
- Light commercial energy assessments
- Energy awareness training

These classes not only educate students on proper practices of energy management but can save a facility millions of dollars. Whether building a new structure or retrofitting an existing one, we will show you and help you to feasibly make important economic improvements and identify energy efficiency pitfalls.



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### ACT NOW!

To learn more about Eaton's training capabilities, visit [www.eaton.com/learning](http://www.eaton.com/learning). To learn more about partnering with Eaton to offer power systems training, e-mail [CHTraining@eaton.com](mailto:CHTraining@eaton.com).