

Cooper Technology Center Training Seminars

During 2009, Cooper Bussmann is offering electrical training seminars at the new Cooper Technology Center in Houston, Texas. The seminars (and number of Professional Development Hours - PDH) are described below.

More information and registration details are available online at www.cooperbussmann.com/trainingservices. See back for registration by fax or mail and location of the Cooper Technology Center in Houston, Texas.

Date/Time/Cost	Presenter	Subject/Description/Professional Development Hours (PDH)
March 18, 2009 8 a.m. to Noon \$25	Terry Tollefsbol, Cooper Bussmann	Overcurrent Protection Basics with Emphasis on Selective Coordination: The key aspects of proper application of overcurrent protection for 600V or less systems will be presented with an emphasis on achieving selective coordination. PDH = 4.
April 28, 2009 8 a.m. to Noon \$25	Tim Crnko, Cooper Bussmann	Fusible Design for Building Systems: This seminar will cover key aspects in designing fusible building electrical systems which will include system and application considerations for selecting and sizing fuses. In addition, there will be some discussion on fusible equipment selection such as switchboard, MCCs, and panelboards. PDH = 4.
May 11, 2009 8 a.m. to 5 p.m. \$50	Dustin Priemer, Cooper Bussmann and Jim White, Shermco	Electrical Safety: This full day session is on electrical safety including important OSHA and NFPA 70E – 2009 Edition requirements. This session will cover important aspects of electrical safety including the components of an electrical safety program, electrical hazards, assessing arc flash hazard, methods to increase electrical safety, flash hazard analysis and mitigation, and maintenance considerations. PDH = 8.
May 28, 2009 8 a.m. to Noon \$50	Mark Hilbert, Chief Electrical Inspector, New Hampshire	Industrial Machinery: This half day seminar will cover key codes and standards requirements for industrial machinery. Topics to be covered include; equipment approval, NEC® Article 670 Requirements (definition, nameplate data, supply conductor, disconnecting means, and overcurrent protection), NFPA 79 Requirements (disconnecting means, protection from shock, control enclosure interlocking, overcurrent protection, and protection of equipment). PDH = 4.
May 28, 2009 1 p.m. to 5 p.m. \$50	Dustin Priemer and Dan Neeser Cooper Bussmann	Industrial Control Panel Overcurrent Protection Considerations: This half-day seminar will highlight one of the most important aspects of control panel design: overcurrent protection. Included will be the proper installation of various types of protective devices such as fuses, circuit breakers, motor circuit protectors and starters. Applications will include drive protection, power vs. control circuit protection, system grounding types, conductor and component protection, and control panel assembly fault withstand. The 2008 edition of the National Electrical Code® and UL 508A requirements will be the guidelines for reference throughout the seminar. PDH = 4.
May 29, 2009 8 a.m. to 5 p.m. \$100	Mark Hilbert, Chief Electrical Inspector, New Hampshire	NEC® Emergency Systems, Legally Required, and Optional: This session provides the tools to identify the Code requirements necessary to judge the suitability of an emergency or standby power installation or install a compliant emergency or standby power installation, special attention will be paid to Articles 225, 250, 700, 701 and 702. PDH = 8.
July 23, 2009 8 a.m. to 5 p.m. \$50	Dustin Priemer and Dan Neeser, Cooper Bussmann	Short-Circuit Current Ratings: Ensuring a control panel assembly is properly capable of handling a fault condition can mean the difference between hours of shutdown time with potential personnel hazards and having a safe installation up and running in a matter of minutes. This full day seminar will cover the industry accepted process for determining panel fault withstand or Short-Circuit Current Rating (SCCR): UL 508A supplement SB. In addition to the UL requirements there are NEC® guidelines which will also be discussed. Installation and Inspection considerations will be included as well as numerous control panel device and design considerations. A working panel example and exercises will be incorporated. A tutorial example of Cooper Bussmann® OSCAR 2.0 SCCR compliance software will be worked as well. PDH = 8.
August 18, 2009 8 a.m. to Noon \$25	Jim White, Shermco	Electrical Power Systems Maintenance and Safety: Maintenance is often considered to be an overhead item; a necessary evil that the longer it can be deferred, the better. This view ignores the body of evidence that shows how a properly instituted maintenance program can not only save money, but ensures the system is safe to work on. The 2009 edition of the NFPA 70E requires that overcurrent protective devices (OCPD) be properly maintained, either according to the manufacturer's instructions or to industry consensus standards. This program discusses the effects of improper maintenance, portions of the NFPA 70B, "Recommended Practice for Electrical Equipment Maintenance", portions of ANSI/NETA MTS-07, "Standard for Maintenance Testing Specifications for Electrical Power and Distribution Equipment and Systems", how a maintenance program can save a company money and how the 2009 edition of the NFPA 70E covers the maintenance question. PDH = 4.

Seminar Registration (Please Print)

Name _____, Title _____, Company _____
 Address _____, City _____, State _____ Zipcode _____
 E-mail _____, Phone (_____) _____

After successful completion of the class, Cooper Bussmann will provide a seminar description and a certificate with the number of PDHs (Professional Development Hours). These PDHs are self-certified by Cooper Bussmann.

<u>Seminar/Date</u>	<u>Cost</u>	<u># of Attendees*</u>	<u>Total</u>
<i>Overcurrent Protection Basics with Emphasis on Selective Coordination</i> March 18, 2009	\$25	_____	\$_____
<i>Fusible Design for Building Systems</i> April 28, 2009	\$25	_____	_____
<i>Electrical Safety</i> May 11, 2009	\$50	_____	_____
<i>Industrial Machinery</i> May 28, 2009	\$50	_____	_____
<i>Industrial Control Panel Overcurrent Protection Considerations</i> May 28, 2009	\$50	_____	_____
<i>NEC® Emergency Systems, Legally Required, and Optional</i> May 29, 2009	\$100	_____	_____
<i>Short-Circuit Current Ratings</i> July 23, 2009	\$50	_____	_____
<i>Electrical Power Systems Maintenance and Safety</i> August 18, 2009	\$25	_____	_____
Grand Total			\$_____

*Please supply name, title and e-mail address of other attendees on separate list.

Registration and Payment Method:

Credit Card

Complete and fax this form to 636-527-1607, Attention Dianne Mollet

Check

Complete this form and mail along with check to:

Cooper Bussmann
 P.O. Box 14460, St. Louis, MO 63178-4460
 Attn: Dianne Mollet

Make check payable to "Cooper Bussmann"

To discuss registration questions, call Dianne Mollet (636) 527-1427.

General Conditions

Receipt of registration forms are confirmed within four (4) business days of receipt.

Confirmation that a seminar will be conducted is typically sent three weeks prior to the seminar date.

Please wait for confirmation before booking non-refundable travel or lodging.

Fee is non-refundable less than two weeks before seminar date.

Credit Card Payment*

Visa _____, MasterCard, _____, Total Charged \$_____

Card Number _____

Card Expiration Date _____

Name on Card _____

Billing Address (as appears on statement - if different than above)

Company _____

Address _____

City _____, State _____, Zipcode _____

* Visa and MasterCard **ONLY**

Seminar Location

Cooper Technology Center

3413 North Sam Houston Parkway West, Suite 212A
 Houston, TX 77086

Phone 713-280-3400, Fax 713-280-3413

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www.coopertechnologycenter.com

Cooper Industries now offers premier industrial training at our new Technology Center. The Cooper Technology Center represents a manifestation of global trends within the industrial space and further demonstrates Cooper's unique position of leadership, innovation and experience across the electrical industry.

For questions about the Cooper Technology Center, contact:

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