



May

4 - 8	Field Engineer Training	Cooper Safety
11	Electrical Safety	Cooper Bussmann
18 - 22	Installer Training	Cooper Safety
28	Industrial Machinery	Cooper Bussmann
28	Industrial Control Panel Overcurrent Protection Considerations	Cooper Bussmann
29	National Electrical Code Emergency Systems, Legally Required and Optional	Cooper Bussmann

June

5	Technical Design Considerations	Cooper B-Line
8 - 12	Field Engineer Training	Cooper Safety
15 - 19	Installer Training	Cooper Safety
16 - 17	Airetool Training	Cooper Tools
23 - 24	Product Basics (Part I and II)	Cooper Crouse-Hinds
30	Product Basics (Part III)	Cooper Crouse-Hinds

July

1	Product Basics (Part IV)	Cooper Crouse-Hinds
13 - 17	Installer Training	Cooper Safety
23	Short Circuit Current Ratings	Cooper Bussmann
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August

3 - 7	Installer Training	Cooper Safety
11	International Electrical Code/National Electrical Code	Cooper Crouse-Hinds
17 - 21	Installer Training	Cooper Safety
18	Electrical Power System Maintenance and Safety	Cooper Bussmann
21	Technical Design Considerations	Cooper B-Line

Curriculum Descriptions

Field Engineer Training — Cooper Safety

This training course is designed to provide the basic skills necessary to conduct site surveys, ensure proper radio frequency network connectivity and determine intelligibility requirements that meet the customer's needs.

Electrical Safety — Cooper Bussmann

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**

Installer Training — Cooper Safety

The installer training course is designed for individuals responsible for the installation of the WAVES hardware. Training includes, but is not limited to, installation of TRXs, antennas, lighting protection modules, uninterruptible power supplies, speakers, strobes, wired activators and high-powered speaker arrays.

Industrial Machinery — Cooper Bussmann

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**

Industrial Control Panel Overcurrent Protection Considerations — Cooper Bussmann

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. **PDH = 4**

Technical Design Considerations — Cooper B-Line

This half-day seminar explores how to effectively engineer support systems including cable tray, strut systems, etc.

Product Basics — Cooper Crouse-Hinds

This four-day program includes an overview of global hazardous location classifications and training on the entire line of Cooper Crouse-Hinds electrical products, to help distributor partners offer customers the right solution for the right application.

National Electrical Code Emergency Systems, Legally Required and Optional — Cooper Bussmann

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**

Airetool Training — Cooper Tools

This two day training course is designed to introduce the user to the Airetool product line. Airetool tube cleaners and expanders are used to fabricate and maintain boilers, heat exchangers, condensers and other tubular type equipment. Typical applications include use in petro chemical plants, oil refineries, nuclear and non-nuclear power plants, paper, sugar and metal mills, air-conditioning servicing and maintenance plants. The course will cover tool selection and application specific to original manufacture and maintenance of heat exchangers. Participants will be equipped to begin working on equipment upon completion of the course.

Short Circuit Current Ratings — Cooper Bussmann

This class 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 be discussed. Installation and in section considerations will be included as well as numerous control panel device and design considerations. A working panel example and exercises will be incorporated along with a tutorial example of Cooper Bussmann OSCAR 2.0 SCCR compliance software. **PDH = 8**

Basic Electrical Product Solutions — Cooper Industries

This cross-divisional electrical training course will provide an introduction to the breadth of Cooper's electrical products for industrial environments. Divisions represented in the training include B-Line, Bussmann, Crouse-Hinds, Lighting, Power Systems, Safety, and Wiring Devices.

Electrical Power Systems Maintenance and Safety — Cooper Bussmann

The NFPA 70E requires that over-current protective devices (OCPD) be properly maintained, either according to the manufacturer's instructions or to industry consensus standards. This session discusses the effects of improper maintenance and how a maintenance program can help save companies money. **PDH = 4**

IEC/NEC — Cooper Crouse-Hinds

This one day course offers a comparison between the International electrical Code and the national Electrical Code through the installation methods of electrical products.

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