

Standard Price **\$695**



2008 National Electrical Code

2008 Code changes ... New mandatory standards and regulations make this information critical for you, for your organization! This super-charged seminar exposes the *Myths* and *Musts* of the NEC --new mandatory standards and regulations makes this seminar critical for you and your organization.

WHO SHOULD ATTEND

- Electrical contractors, inspectors, construction
- Maintenance electricians and apprentices
- Electrical engineers, journeyman electricians
- Designers, supervisors, and electrical gang supervisors.

INSTRUCTORS

[Shane Bradley](#) is an experienced Electrical Engineer with specialization in the field of process systems. He is knowledgeable and fluent in programmable controller logic, networking, data communications, computer languages and other P.C. based logic control systems. He has six years of experience at a major electronics firm as an industrial control specialist supporting process controllers.

For three years, he served as Vice-President of Engineering for a systems integrator specializing in building automation, including monitoring and control utilizing drive, process controls, personal computers, communications, chiller and boiler controls, various sensing equipment, etc.

Mr. Bradley has a Bachelor of Science degree in Electrical Engineering from the University of Illinois and is a member of the Institute of Electrical and Electronic Engineers and the Power Engineering Society.

AGENDA

An Introduction to the 2008 NEC:

- Examining the Code's purpose and scope. Exact intent vs. interpretations. Definitions. Mandatory rules. Execution of work. Requirements for electrical installations. Safe working spaces.

Clarification for whom the Code applies. New illumination requirements. Markings and identifiers.

How to Recognize and Use Grounded Conductors:

- Classifications. Branch circuits. Voltage limitations. Receptacles and connectors. Outlet requirements.

Determining Branch Circuits and Making Calculations:

- Requirements for building wire. Selecting voltages. Computing loads. Feeder demand factors. Temperature imitations.

Ground Fault Requirements:

- Replacement of non-grounded receptacles.

Services, Sizing, and Installations:

- Calculating service requirements. Rules and exceptions. Protecting services against damage. Wiring methods. Disconnects. Overloads.

Over-Current Protection:

- Safeguarding conductors and equipment. Circuits 600 volts and less. High voltage circuits. Continuous load characteristics.

Grounding & Bonding Electrical Installations:

- Understanding the requirements. Types and sizes of conductors and electrodes. Methods of grounding and bonding. (Changes in Article 250)

Selecting the Proper Wiring & Materials:

- Basic rules for corrosion protection. Spread of fore products of combustion. Electrical equipment: how to determine sizes and ratings. Adding wiring methods. New restrictions.

Choosing Conductors for General Wiring:

- Temperature correction factors. De-rating factors. New exceptions for parallel conductors.

Branch Circuits for Appliances:

- Choosing conductor sizes. Rating circuits. Overcurrent protection. Proper grounding procedures.

Wiring for Special Situations:

- Air conditioning and refrigeration equipment. Wiring in hazardous places. Wiring special equipment.

Motors and Motor Circuits:

- What does the data on the name plate mean? How to select the right wire size. Fuse-breaker sizes. Connecting multiple motors on one branch circuit. Feeder for two or more motors. Requirements of a Design E motor (rewritten sections and tables)

Transformers:

- When to place an overcurrent device in the primary, secondary, or both primary and secondary winding of a transformer. Computing the size of an overcurrent device for a transformer.

In-House Seminars and Consulting

Do you have 6 or more people who would benefit from this training? Do you want more customized training relevant to your facility? If so, call Glenna or Alan at 1-800-637-0120 today to learn how you will save money and benefit from “in-house” training focused on your facility. In-house training means that we come to your facility, or venue of choice, and customize this program at a fixed daily rate for up to 20 of your people. This cost-effective training method also reduces travel and accommodation expenses associated with sending multiple people to public training.