

NATIONAL ELECTRICAL CODE® TRAINING



PROVIDED BY
Klingler Electrical Safety, LLC
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This class is a must for anyone designing, installing, maintaining, repairing, or examining industrial or commercial electrical systems.

Objective

The objective of this class is to familiarize engineers, supervisors, and workers with the pertinent sections of the 2008 National Electric Code® that they need. Recognizing all the information covered in the training class will not be committed to memory; the class is designed to prepare the attendees to find the information long after attending the class.

Often times readers of the NEC® find the sections they are looking for, but don't understand how to use the section or how to make the appropriate calculations. This class will answer questions on how to apply the requirements of the NEC® and will involve the attendees in the most common calculations. For the licensed electricians, this class is a great refresher, plus it points-out the pertinent changes in the 2008 edition.

The 2008 NEC® has more than 700 pages, yet most users of the book only need and use a small percentage of those pages, this class will help the attendee find what they need quickly and easily.

Who Should Attend

This class is for all those that need to use the National Electrical Code®. The code is presented in such a manner that engineers and electricians, regardless of formal education will benefit. It covers the code in enough detail to help the novice learn the basics of the code, and yet it specifically addresses code additions and changes required to meet the needs of the licensed Journeyman or Master Electrician.

This class **is not** designed for the residential electrician; however some of the interesting code requirements affecting dwellings are always a subject of interest and discussion.

Although the class is not designed specifically to prepare attendees to take Journeyman or Master Electrician Tests, attendees have been exceptionally successful at passing their exams after taking this class.

With advance notice, the class can be modified to address the specific interest of a company.

The class is a must for **Electrical Engineers, Designers, Technicians, Electricians, Inspectors, and Supervisors**. Attendance in this class is an important component in providing your employees the training the need to be "Qualified" to perform electrical work.

Class Structure

The class is structured to be 2 days (approximately 14 hours). A PowerPoint presentation with pictures and videos, as well as true stories and experiences will be used to keep the class interesting and relevant. A flip-chart is used for explanations, calculations, and for answering questions. The class is very informal and fast moving, with an atmosphere that encourages questions. For best results, groups of 25 or less are recommended.

What You Will Learn

- How to find what you are looking for in the NEC®.
- **Pertinent changes in the 2008 edition of the NEC®.**
- **The most useful sections in Chapters 1 through 4 of the NEC®.**
- How to properly size Conductors and Overcurrent Protection.
- Conductor identification requirements.
- GFCI and AFCI requirements.
- Arc-Flash Labeling requirements.
- Service requirements.
- How to properly apply Tap Rules.
- **The requirements for Grounding and Bonding.**
- Conductor installation requirements including Conduit Sizing.
- Selection considerations for Conductors and Raceways.
- Limitations of Cords and Cables.
- Requirements for Switches and Receptacles.
- **How to properly size Overcurrent Protection for Motors.**
- How to determine Overcurrent Protection for Transformers.

Materials

Attendees will need their personal copy of the 2008 NEC. They are welcome to bring their own copy or copies can be provided at an additional cost of approximately \$65 per copy to the class.

About the Instructor



John Klingler, P.E. will be your instructor. He is nationally-recognized as an expert on NFPA 70E Standard for Electrical Safety in the Workplace and has been selected by nationally-known companies to present NFPA 70E to their management. John consistently receives compliments from OSHA personnel, management, and labor; for providing needed information on this subject in an easy-to-understand manner. John is Professional Engineer, was formerly a Master Electrician, a Department of Labor certified Electrical

Instructor, and has been an MSHA certified electrician in low, medium and high voltage. John has been approved as an OSHA instructor for 10-hour General Industry Safety Training, and has taught IACET approved courses in Basic Industrial Electricity, Hands-on Troubleshooting, National Electrical Code, and Electrical Safety. With over 25 years of experience in management, engineering, supervision and as an electrician, along with 6 years of electrical training experience, John brings the perspective of management, engineering, and the electrician to the classroom. John has personally conducted arc-flash hazard analyses for several nationally recognized companies, helped develop electrical safety programs and can speak of typical findings and results. You will not be disappointed with his presentation and informal discussions.

Get your electricians and engineers the training they need!

[REQUEST A QUOTATION](#)

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