

Confused about Grounding? Who's Not!

Grounding and Bonding of electrical systems, sensitive electronic, and communications equipment is the most important and least understood activity in the electrical, data processing and communications industry. Mike will explain the following topics in an informal and relaxed style using PowerPoint 4-color graphics and examples that apply to today's electrical installations. Those attending this high-energy program will learn the basics as well as the advance concepts necessary to understand the practical grounding and bonding rules in the *NEC* for systems not over 600V.



Do you need to attend this seminar? Take this quiz and find out!

Q. When electrical current is provided with multiple conductive paths on which to flow, current will always take the path of least resistance?

Q. Grounding ensures that dangerous voltage on metal parts from a ground fault can be removed or be reduced to a safe level?

Q. If an electrical system is properly installed, the voltage between the neutral terminal and the ground terminal at a receptacle should be near zero?

Q. Grounding premises wiring to a low resistive grounding grid can help reduce stray voltage?

If you answered true to any of the above questions, then you need to attend this seminar! For a more comprehensive quiz, please visit <http://www.mikeholt.com/MHGVB/>

Seminar Topics

DAY 1

Grounding Fundamentals

Purpose of Grounding and Electrical Fundamentals
Lightning Protection and TVSS Protection
Earth Grounding versus Equipment Grounding
Effective Fault-Current Path
Stray Voltage and Current
Proper Neutral-to-Ground connections
Ground Loops
Objectionable Currents (Net Current)
EMI and RF Interference

DAY 2

System Grounding

Services Equipment – Section 250.24
Transformers – 250.30
Generators – Section 250.30
Separate Buildings and Structures – Section 250.32
Portable and Vehicle Generators – Section 250.34

Grounding Sensitive Electronic and Communications Equipment

The Grounding Electrode System
Ufer Ground
Grounding Sensitive Electronic Equipment
(Isolated and Signal Reference Ground)
Grounding of Communications Systems
(Telephone, CATV, Satellite Dishes, Antennas)
Grounding Data and Instrumentation Cables



Get Mike's Grounding versus Bonding Book **FREE** when you attend this seminar, or order the home study course which includes the Textbook, DVDs or Videos

For More Information Contact Donna Brown at 1.866.NEC®CODE

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Spend 2 Days with Mike and Get it Right Grounding versus Bonding Seminar



About Your Presenter and Hosts



Mike is nationally recognized as one of America's most knowledgeable electrical trainers. His instruction has helped tens of thousands of electrical professionals ensure the proper design and installation of electrical systems in accordance with the NEC. His dynamic and animated teaching style is relaxed, direct and enjoyable. Perhaps Mike's best quality is his ability to communicate technical topics in an easy-to-understand manner.

EC&M



EC&M magazine is the technical authority for electrical professionals, through a mix of in-depth technical articles, market and construction forecasts, and comprehensive product reviews.



Leviton was founded in 1906, manufacturing a single product: tip mantles for gaslights. Since then, the company has become a leading North American producer of electrical and electronic products.



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