

GROUNDING FOR EQUIPMENT PERFORMANCE AND NEC 2005 ONE-DAY COURSE

Hosted By: The Music City Power Quality Group and the IEEE Central Tennessee Section.

Instructor: Tom Shaughnessy

Tom Shaughnessy is Vice President and co-founder (1986) of PowerCET Corporation (www.powercet.com). Past experiences include ONEAC Corporation (product and engineering manager), Topaz International (international applications/sales engineer), and Burroughs (field engineer/MPS). Tom has conducted in-depth power audits for many Fortune 500 companies, co-authored a book on power and grounding, and regularly publishes articles on power quality, harmonics, and electromagnetic compatibility. He is a graduate of the University of Montana, a member of IEEE, AAMI, and NFPA, and has over 14 years experience in equipment service and protection.

Course Description:

Few topics can elicit as much controversy as that of grounding. Poor grounding practices can cause continual equipment problems in a facility, whereas proper grounding practices can ensure reliable and productive facility operation. Specialized grounding techniques have evolved to meet the perceived grounding requirements of electronic equipment; sometimes grounding implementation not only degrades equipment performance but also violates the NEC. Terms such as single point grounding, multiple point grounding, isolated grounding, and equipotential reference grounding have special meaning and illustrate different approaches to grounding. This Grounding course is an intensive one-day course which examines, in depth, this very controversial topic.

You will learn:

- The difference between floated and grounded electrical systems
- The adverse effects of voodoo grounding schemes
- Why isolated ground receptacles work in some cases and not in others
- How ground plane technology prevents skin effect from defeating equipment grounding
- Why and how telecommunications and cable TV systems must be grounded
- The advantages of Faraday cage construction to control effects of radiated interference
- How to preserve NEC (life-safety) grounding compliance and still achieve effective grounding without sacrificing equipment performance
- To recognize grounding as a simple scientific practice rather than as magic, myth and folklore.

When: Wednesday, February 7, 2007. Registration 8:00AM to 9:00AM, Program 9:00AM to 5:00PM

**Where: Tennessee Engineering Center (At the Adventure Science Center)
800 Fort Negley Blvd., Nashville TN 37203, (615) 862-5160**

Cost: \$150.00. Cost includes lunch, refreshments, and course materials. Pay by cash or check at the door or mail check to IEEE Central TN Section, 217 Scenic Ridge Court, Old Hickory, TN 37138. Write checks to "IEEE Central TN Section".

Deadline: Please RSVP by Friday, January 26, 2007 by sending an e-mail to RSVP-PQ.CentralTN@ieee.org or by calling (615) 773-8964

Certificates will be available for PDH Credits.

Don't miss this great opportunity to learn about Grounding from one of the premier experts at a very minimal cost!!!