



The Electrical Association of Philadelphia

Optional Standby System Generators

Friday, April 28, 2017

This class will show the attendee how to size the generator correctly and what factors influence the final choice of size. How to install according to the manufacturer and NEC rules will be explained. Here is a class that is about the hottest request for training for the past two or three years.

- Can't I just put in a small generator and let the homeowner do the load shedding by turning off breakers
- What is load shedding anyway and what are the ways to accomplish this?
- Do I have to install a transfer switch for the building owner?
- What is a suicide cord?
- How do I do a load calculation?
- How do I know I need a load calculation in the first place?
- Is it okay to have two generators at one facility? One for emergency and one for optional circuits?
- Is it possible to supply three different loads: (1) emergency (1) legally required and (1) optional loads from one generator?
- Do I have to install two ground rods for the generator? One? None required?
- How do I know if I have to follow the rules for a separately derived system or not?

1. Introduction to Article 445 and Article 702
2. Generator Standby Systems vs. Emergency Generators
3. Installation
4. Sizing Generator/Load Calculations
5. Conductor Ampacity
6. Overcurrent Protection
7. Transfer Switch Scheme
8. Disconnect Switch
9. Grounding & Bonding
10. Safety/Labeling
11. System Interaction

Required Materials Need: Bring your own copy of 2008, 2011 or 2014 NEC Book

CEUs: 8 hours for Philadelphia, New Jersey and Delaware Contractors;
8 hours for PA Electrical Inspectors; 8 for PDHs for PA PEs

Date: Friday, April 28, 2017

Schedule: Registration at 7:00 a.m.; Class 7:30 a.m. - 4:30 p.m.

Cost: Member Rate \$250; Non-Member Rate \$295; Lunch will be provided.

Location: EAP Offices, 527 Plymouth Rd., Door H, Plymouth Mtg. PA 19462

Instructor: Rich Van Wert

Register on-line: www.eap.org, faxing (610) 825-1603 or call (610) 825-1600

- Make checks payable to: The Electrical Association of Philadelphia or "EAP"
- Payment is required at time of registration to reserve your seat
- Questions? Call Mair at (610) 825-1600, ext. 12 or email mair@eap.org
- No Refunds...SEE OUR REFUND POLICY - www.eap.org

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