



The Electrical Association of Philadelphia

Optional Standby Systems, Generators

Friday, May 11, 2018

Learn how the NEC relates to the installation of the optional standby generator. Conduit and wire types allowed, clearances from buildings and opening, gas vs. propane installs, transfer switch wiring methods, grounding and bonding the system and much more will be covered.

This is a class that is about the hottest request for training for the past two or three years. 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.

- 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 3 different loads: 1 emergency, 1 legally required, & 1 optional 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?

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

CEUs: 8 hours for Philadelphia, New Jersey, and Delaware Contractors;
5 hours for Cecil County, MD; 8 hours for Queen Anne, MD;
8 hours for PA Electrical Inspectors; 8 PDHs for PA PEs

Date: Friday, May 11, 2018

Schedule: Registration at 7:15 a.m.; Class 7:30 a.m. - 4:00 p.m.

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

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

Instructor: Rich Van Wert

Required Materials: National Electrical Code book

For those who want NJ CEUs: Photo ID & NJ License

- To pay using a credit card, register [on-line here](#) or call (610) 825-1600
- To pay by check, complete form and make check payable to: The Electrical Association of Philadelphia
- Payment is required at time of registration to reserve your seat
- Questions? Call Arielle at (610) 825-1600, ext. 14 or electric@eap.org
- **No Refunds... SEE OUR REFUND POLICY** www.eap.org

Name: _____ Company: _____

Address: _____

Mobile/Phone: _____ Email: _____

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