



The Electrical Association of Philadelphia

presents

Optional Standby Systems, Generators

Friday, September 13, 2019

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 a few 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?

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| 1. Introduction to Articles 445 and 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 |

Date: **Friday, September 13, 2019**
CEUs: 8 for Philadelphia, New Jersey, and Delaware Contractors;
5 for Cecil County, MD; 8 for Queen Anne, MD;
8 for PA Electrical Inspectors; 8 PDHs for PEs approved by IEEE
Schedule: 7:15 a.m.: Registration – 7:30 a.m. - 4:00 p.m.: Class
Cost: EAP Member Rate: \$250 / Non-Member Rate: \$295
Location: **The EAP Office, 1787 Sentry Parkway West, VEVA 16, 1st Fl., Blue Bell, PA**
Instructor: **Rich Van Wert**

Required Text Bring your own copy of the **2014** NEC book
For those who want NJ CEUs – you must bring your photo ID & NJ License

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- Questions? Contact us by phone at (610) 825-1600 or by email at electric@eap.org.
 - To pay by credit card, please register online at www.eap.org or call us at (610) 825-1600. Please note that we **cannot** accept credit card information sent by email or fax.
 - To pay by check, please complete this form and send it in with your check. Make checks payable to: The EAP
 - Payment is required at the time of registration to reserve your seat.
 - **No refunds...see our refund policy at www.eap.org.**

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To pay by credit card, please visit www.eap.org. To pay by check, please complete this form.

Name: _____

Company: _____

Mobile Phone: _____ Email: _____

Additional Registrant: _____

Additional Registrant: _____