

The Electrical Association of Philadelphia



National Electrical Code (NEC) for HVAC

Friday, November 17, 2017



Do You Know the Importance of the NEC? Here are some questions for you:

- ✓ Why do my competitors sometimes install fused disconnects and sometimes non-fused disconnects?
- ✓ How do I size the branch circuit for the oil burner?
- ✓ Is an emergency shutoff switch required for both oil and gas burners?
- ✓ Is it true that the black pipe gas line has to be bonded to the grounding electrode system?
- ✓ What is a grounding electrode system anyway and what does "bonded" mean?
- ✓ What are the rules for placement of the HVAC disconnect switches?
- ✓ Is the installer required to provide a luminaire for service personnel at the rooftop unit location or just at indoor locations?
- ✓ Is it okay to run the Class 2 T-wire in the same liquid-tite raceway as the Class 1 THWN conductors?
- ✓ Is the HVAC unit considered a "continuous load"? If yes, just what does that mean to the installer?
- ✓ What is meant by max OCPD vs. max fuse size?
- ✓ What is "ampacity adjustment" all about?
- ✓ Is it code-compliant to run Romex to the outdoor unit of a split unit heat pump as long as it is in liquid-tite conduit e.g.?
- ✓ Is it true that Greenfield is not allowed for outdoor installations anymore?
- ✓ My AHJ (inspector) keeps telling me to comply with NEC Article 110.3(B). Why? What does it mean?
- ✓ Is it true that I must have a 125 V receptacle installed within 25 ft. of the outdoor HVAC unit I just installed? If so, does it have to be the tamper-resistant type? GFCI-protected? AFCI-protected? Must an in-use or "bubble" cover be installed? Heavy-duty?

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

Date: Friday, November 17, 2017

Schedule: Registration at 7:15 a.m.; Class from 7:30 a.m. to 4:30 p.m.

Cost: Member Rate - \$250; Non-Member Rate - \$295; Lunch included.

Location: EAP Offices, 527 Plymouth Road, Door H, Plymouth Meeting, PA

Instructor: Rich Van Wert, Electric Education Center

Required Text / Materials - Bring your own copy of the 2011 or 2014 NEC and a calculator

- Register on-line: www.eap.org, fax (610) 825-1603, or call The Association (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 Arielle at (610) 825-1600, ext. 14, or email arielle@eap.org.

Name(s): _____

Company: _____

Address (with city, state, zip): _____

Mobile Phone: _____ Fax: _____ Email: _____

Credit Card #: _____ CV Code: _____ Exp. Date: _____

Name on Card: _____ Signature: _____