



# The Electrical Association of Philadelphia

presents

## Branch-Circuit, Feeder, and Service Load Calculations

### Based on the 2014/2017 NEC

### Friday, October 11, 2019

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#### **About the Class:**

This course is designed to teach the principles of article 220, Branch-Circuits, Feeder, and Service Load Calculations, based on the 2014 NEC for one- and two-family dwellings and on the 2017 NEC for all other occupancies. The course will update design professionals, plan review examiners, electrical inspectors, electrical contractors, and electrical maintenance workers. It will also be beneficial to individuals who plan to take their ICC electrical contractor or electrical inspectors test where some parts of the tests are calculations.

#### **Can You Answer?**

What is a branch-circuit? What is a feeder? What is a service? How do you calculate voltage drop? What is demand? Is there a difference between watts and volt-amperes, or k.w, verses k.v.a.? What are specific-purpose calculation references? What part does Annex D play in all of this?

Come and get these answers and more. We will work on actual calculations!

#### **About the Instructor:**

Ernie has been in the electrical industry over fifty-three years. He is a graduate of Bok Vocational and Technical High School, Philadelphia School District. From graduation he was employed by the Philadelphia School District and he progressed from an electrical trades trainee, electrician, electrical foremen, to facility manager. Mr. Davis is an electrical contractor licensed in the City of Philadelphia, State of New Jersey, and City of Chester. He is a Pennsylvania UCC Certified Electrical Inspector in categories 11, 19, and 25, as well as a Licensed Electrical Inspector for the City of Philadelphia and Instructor for The Electrical Association of Philadelphia.

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**Date:** Friday, October 11, 2019  
**CEUs:** 8 for Philadelphia, New Jersey, and Delaware Contractors  
8 for PA Electrical Inspectors  
**PDHs:** 8 for PEs approved by IEEE  
**Schedule:** 7:15 a.m.: Registration – 7:30 a.m. - 4:30 p.m.: Class  
**Cost:** EAP Member Rate: \$250 / Non-Member Rate: \$295  
**Location:** **The EAP Office, 1787 Sentry Parkway West, VEVA 16**  
**1<sup>st</sup> Floor Classroom, Blue Bell, PA 19422**  
**Instructor:** Ernie Davis

**Required Text:** Bring your own copy of the 2014 & 2017 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](mailto:electric@eap.org).
  - To pay by credit card, please register online at [www.eap.org](http://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](http://www.eap.org).**
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### **Branch-Circuit, Feeder, and Service Load Calculations Registration, October 11, 2019**

To pay by credit card, please visit [www.eap.org](http://www.eap.org). To pay by check, please complete this form.

Name: \_\_\_\_\_

Company: \_\_\_\_\_

Mobile Phone: \_\_\_\_\_ Email: \_\_\_\_\_

Additional Registrant: \_\_\_\_\_

Additional Registrant: \_\_\_\_\_