

# “Electrical Basics One for Journeyman Exam Prep”



**16 Hour course to teach/review electrical basics for electrical construction and maintenance electricians as a first course in prep for the electrical exam.**

**Class presentation, demonstration, and coursework (worksheets) will include:**

- **Basic Electrical Theory, Electrical Quantities (Voltage/Amperage/Resistance)**
- **Electrical Circuits, Grounding Circuit Basics, GFCI's, AFCI's**
- **Short Circuit and Arc Flash, Voltage Drop, Ohms Law, Power Calc's ,**
- **Series & Parallel Circuits, Measuring Instruments & Troubleshooting Procedures**
- **Magnetism and Magnetic Induction, Alternating Current (AC) Theory**
- **Transformer Theory and Calculations, True Power, Apparent Power, Power Factor Calculations (as time allows)**

**Recommended for: Apprentice Electricians Studying for the Journeyman's Exam  
Journeyman Electricians Studying/Reviewing for the Masters Exam  
Area Maintenance Electricians and Maintenance Personnel**

**Where: PSU Kansas Technology Center  
Electrical Program Classroom E225**

**When: Tuesday or Thursday 5:00-7:00 PM (Eight 2 hr classes starting Aug 21, 2007)**

**Class will be limited. Pre-registration Necessary. *Minimum of 10 registrants to hold a class.***

**To Register: Contact Jeff Brooks @ 620-235-4829 or [jbrooks@pittstate.edu](mailto:jbrooks@pittstate.edu)**

*Participants will need to purchase a text book from the bookstore for the course.*

<http://s-www.residentialacademy.com/products/electrical/index.aspx>

**Persons Completing this Course will Receive 16 CEU Credits**

**This course meets the new requirements of Kansas S.B. 498 / KSA 12-1526:**

**REQUIRING ALL PERSONS RECEIVING SUCH LICENSE TO OBTAIN NOT LESS THAN 12 HOURS BIENNIALLY OF CONTINUING EDUCATION APPROVED BY THE LOCAL GOVERNING BODY**

- *CEU Credits are issued and mailed directly from the Kansas Mechanical Trades Board*

**Sponsored by: Pitt State Electrical Technology Program  
Taught by: ECT – Electrical Training Classes**