Introduction to Electronics for Electricians

On-Line Electrical – 8 hours

COST: $99.00

Successful completion of this course results in an ABC certificate and is accepted as Continuing Education towards renewal of a California electrical license.

TO REGISTER: Call or email Continuing Education at (858) 513-4700 or continuinged@abcsd.org.

Payment: Your tuition will be covered in full if you qualify with Training Funds; otherwise, a credit card will be required for the full tuition.

COURSE DESCRIPTION:
In this class, electricians learn about Electronic Components, Electronic Circuits, and the Electrical Theory that underpins them.

Course Topics Include:

- Electrical/ Electronic Theory
- Electrical history
- Use of engineering notations
- Electrons, protons, neutrons
- Law of Charges
- Conductors
- Insulators
- Semiconductors
- Magnetism
- Static electricity
- Current, voltage, resistance
- Different types of electrical circuits
- Ohm's Law
- Electrical sources: AC and DC
- Series, parallel, and combination circuits
- Electronic Components
- Resistors
- Applying resistor color code to find ohm values
- Semiconductors
- Diodes including LEDs
- Transistors
- Inductors
- Capacitors
- Integrated Circuits
- Electronic Circuits
- Power supplies
- Transformer circuits
- Rectifier circuits
- Filter circuits
- Regulator circuits
- Schematic diagrams
- Printed circuit boards & breadboards
- Virtual breadboards

IMPORTANT TO NOTE:
- Students must pass the final exam to earn credit for this course.
- All course hours must be completed within **90 days** of purchase to receive credit.
- Review the System Requirements below BEFORE you enroll in this class, to make sure your computer is compatible.

MINIMUM SYSTEMS REQUIREMENTS:
- Supported Operating Systems: Desktop or Laptop Running Windows XP and later or running Mac OS X and later
- Latest version of Adobe Flash Player installed. Download latest version at: https://get.adobe.com/flashplayer/
- DSL connection or higher
- REQUIRED BROWSER SUPPORT: Internet Explorer 9 and later, Google Chrome 17.0 and later or Safari 5.1 and later
- MOBILE DEVICE SUPPORT: Tablets with IOS 7 or later and Android 4.2.2 or later.
- *Self-paced courses are not officially supported on smartphones of any kind.*

CANCELLATION POLICY: No refunds or transfers
TUITION COVERED & Class not completed: Full tuition will be deducted from any remaining Training Funds.

QUESTIONS? Please call (858) 513-4700 and ask for Continuing Education (x206).