

ONLINE ELECTRICAL CLASSES

INTRODUCTION TO ELECTRONICS FOR ELECTRICIANS

8-Hours

COST & PAYMENT

\$99

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

REGISTER NOW

Call or email Construction Education at [\(858\) 513-4700](tel:8585134700) or ce@abcasd.org.

Questions?

Call [\(858\) 513-4700](tel:8585134700), select option 5

CANCELLATION POLICY

No refunds or transfers.

TUITION COVERAGE POLICY

In the event of non-completion, full tuition will be deducted from any remaining Training Funds.

IMPORTANT NOTES

- 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 BEFORE enrolling in this class, to make sure your computer is compatible.

JOURNEYMEN PREREQUISITES

There are no prerequisites for the *Introduction to Electronics for Electricians* course.



ABOUT THE COURSE

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

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

TOPICS INCLUDE:

- Electrical/Electronic Theory
- Electrical History
- Engineering Notations
- **Law of Charges:** Electrons, Protons, Neutrons
- Conductors, Semiconductors, Insulators
- Magnetism, Static Electricity
- **Ohm's Law:** Current, Voltage, Resistance
- **Electrical Sources:** AC & DC
- **Electrical Circuits:** Series, Parallel, and Combination
- **Electronic Components:** Resistors (Including Color Code), Diodes (Including LEDs), Transistors, Inductors, Capacitors
- Integrated & Electronic Circuits
- **Power Supplies:** Transformer, Rectifier, Filter, Regulator Circuits
- **Circuit Design:** Schematic Diagrams, Printed Circuit Boards, Breadboards, Virtual Breadboards

SYSTEM REQUIREMENTS

- DSL connection or higher; Javascript must be enabled
- REQUIRED BROWSER SUPPORT (Latest Versions):**
- Microsoft Edge, Google Chrome, Firefox, or Safari
 - You may need to turn off your browser's pop-up blocker or add [Home | eCampus](#) to your browser's trusted websites.

SCREEN READER SUPPORT (Latest Versions):

- JAWS, NVDA, VoiceOver, TalkBack

MOBILE DEVICE SUPPORT:*

*Students may take this course on a mobile device. ABC cannot guarantee course functionality and compatibility with all mobile devices. Having access to a traditional computer as backup is recommended. ABC cannot provide technical support.

- Tablets or phones: Safari or Google Chrome in iOS 7 and later, or Google Chrome in Android OS 6 and later