

# Program Information

Program Name	Class Code	Clock Hours	Weeks	Program Tuition
Electrician (Residential & General)	ELEC30B	900	30	\$15,375

## Program Objectives

This program will prepare students to perform the duties and responsibilities required by entry-level positions in the residential and light commercial electrical field. Students will learn to plan, layout, install, repair, and maintain electrical equipment that provides light, heat, communications, and power. Students will learn to read and follow blueprints and specifications to install electrical wires, cables, and conduit systems. All students will develop mechanical ability and a thorough knowledge of the principles of electricity, circuitry, and power distribution within a building, and will gain familiarity with the materials and techniques of construction. Students will become acquainted with local building and national electrical codes (NEC) and solar photovoltaic installation. Students will demonstrate proficiency in customer service, the use of the internet, and job search skills. Upon enrollment, students become eligible to register with the California DLSE to receive an Electrician Trainee card.

## Methods of Instruction

This program will be taught through a combination of lectures, hands-on classroom/shop/lab projects, small group, and individual projects.

## Methods of Evaluation

Students will be evaluated using a variety of traditional methods including, but not limited to, performance evaluations. CET does not allow the use of notes, open book, open computer or laptop, and cell phones while testing, unless otherwise authorized by the CET Education Department following industry standards.

## Scoring Criteria

Students will be required to pass each competency evaluation with a minimum passing score of 70%.

## Graduation Requirements

To be eligible for a Graduation Certificate students must complete 100% of the actual program hours and must complete all program competencies within 100% and 150% of the scheduled program hours.

## Instructional Materials and Uniforms

The cost of required program books is included in the tuition. In some programs, students may receive two uniform items and protective equipment. Students may purchase additional uniform items.

Through utilization of bulk purchasing practices, non-profit pricing opportunities, and the customization of textbooks, CET is able to provide books to students at below competitive market rates. Prices are subject to change without notice.

**Note:** Students who receive federal financial aid may have the right to opt out of having CET provide books and uniforms, and choose to purchase these items on their own. This cost will be deducted from the published program tuition; students opting

Program Competencies		Hours
1.	Basic Safety	10
2.	Electrical Math	60
3.	Residential I	85
4.	Residential II: Wiring & Installation Methods	90
5.	Commercial I	150
6.	Commercial II	150
7.	Specialty Systems	150
8.	Basic Photovoltaics	150
9.	Customer Service Skills	10
10.	Basic Computer Skills	20
11.	Job Preparedness	25
<b>Total Hours of Instruction</b>		<b>900</b>

*Because instruction is personalized, competency completion time may vary among students.*

out must do so at enrollment or prior to the end of the 10-day cancellation period.

Students may not opt out of purchasing books that have been customized for CET training programs, the toolkit, and PPE, which has been approved to meet industry health and safety standards. Students will be required to sign a statement of receipt for issued items. For more information, see page 18 of the Student Catalog.

## Toolkit

Students become eligible to receive a toolkit during the third week of enrollment in the program. It will be delivered to the student during regular program hours. Once issued, the toolkit becomes property of the student; the student is responsible for replacement of lost, stolen, or damaged items.

## Instructional Equipment

Students will access and utilize a variety of hand/power tools, electrical machinery, equipment, and materials for training daily. Such equipment include, but are not limited to: power drills, band saws, cordless Sawzall, ladders, and EMT benders, irradiance meters, solar cell classroom sets and associated components, solar water pumps, solar fountain kits, and associated components. A broad assortment of cabling, electrical boxes, hardware, connectors, staples, and hand tools are also available for use by students. Students will access a computer lab equipped with Windows 7 and MS Office 2016, networked printer, and internet access.

## Program Schedule

Schedule for ELEC30B: M – F, 8am – 3pm