

# WHOLE RESIDENTIAL ELECTRICIAN (CERT)

## CERTIFICATE OF ACHIEVEMENT

The Certification of Achievement in Whole Residential Electrician Certificate is designed to equip students with the necessary skills to become a journeyman in electrical construction. The construction industry is one of the largest and provides excellent opportunities for high earnings, career advancement, and business ownership. Today, a journeyman license and an industry certificate are mandatory requirements for employment in these positions.

## Program Student Learning Outcomes

- Identify the types of electrical loads for use in Non-residential jobs
- Identify the types of conductors used in the wiring systems
- Understand the use of the distribution equipment, including grounding, maintenance, and identification

## Program Requirements

Students will complete the following courses:

Code Number	Course Title	Units
ELAP 90.01	Introduction to Energy Surveying	2.0
ELAP 90.02	Basic Electricity and Wiring Fundamentals	2.0
ELAP 90.03	Introduction to Lighting Retrofits	2.0
ELAP 90.08	Solar Energy	3.0
ELAP 90.09	Solar Panel Installation	3.0
ELAP 90.10	Cerritos Student Orientation Motivation Education and Training (COMET)	2.0
ELAP 90.11	Introduction to Electrical Vehicles	2.0
ELAP 90.12	Electrical Theory	1.0
ELAP 90.13	Code Requirements	0.5
ELAP 90.14	Conduit, Raceways, Panelboards and Switchboards	1.5
ELAP 90.15	Overcurrent Devices	1.0
ELAP 90.16	Grounding Systems	1.0
ELAP 90.17	Prints & Specifications	0.5
ELAP 90.18	Motors, Motor Controllers and Process-Controllers	1.5
ELAP 90.19	Generators and Power Supplies	1.0
ELAP 90.20	Jobsite Management	1.0
ELAP 90.21	Specialty Systems	1.0
ELAP 90.22	OSHA-10/30 General Training	1.5
<b>Total Units</b>		<b>27.5</b>