

# GENERAL ELECTRICIAN CERTIFICATE OF ACHIEVEMENT

---

This certificate will allow an "Electrician Trainee" to sit for the California State General Electrician Certification examination. These courses also satisfy the continuing education requirement every three years for certified electricians.

Code	Title	Units
<b>Required Courses:</b>		
OSHA 030	Federal OSHA Outreach: Construction Industry Safety	2
ELEC 216C	Introduction to Industrial Electricity	4
ELEC 217C	Industrial Electricity	4
ELEC 218C	Controlling Industrial Electricity	4
ELECTR 110	Direct Current Circuit Analysis	3
ELECTR 111	Direct Current Circuit Laboratory	1
ELECTR 115	Alternating Current Circuit Analysis	3
ELECTR 116	Alternating Current Circuit Laboratory	1
ELECTR 230	Semiconductor Devices	3
ELECTR 235	Solid State Circuit Analysis	4
ELECTR 265	Digital Logic Design	4
INSPEC 014	Advanced Construction Inspection: National Electrical Code (NEC)	3
KIN 231	First Aid and CPR	3
TECALC 087	Technical Calculations	4
INSPEC 029	Community Relations for Building Personnel	3
<b>Total Units</b>		<b>46</b>

*This is a Gainful Employment Program*

## Program Learning Outcomes

At the completion of this program, students will be able to:

- Be eligible to sit for California State General Electrician Certification examination on the theory and procedures of electrical technology.
- Select and operate electronic test equipment during troubleshooting and repair operations, with an emphasis on safety in use and accuracy in results.
- Select the proper section of the National Electrical Code and electrical blueprints, to properly inspect, and estimate the costs associated with for residential and commercial wiring.
- Analyze, interpret, and trace digital logic diagrams used in signal tracing of complex digital circuits.
- Effectively communicate with and advise customers and co-workers, both written and orally, regarding the progress of and decisions made concerning test and repair procedures.