ELECTRICIAN TRAINING

ABOUT THIS AREA OF STUDY

College of the Sequoias’ Electrician Training program is an approved training program by the California Division of Labor Standards. Students enrolled in this program are eligible to hold their Electrician Trainee card in order to seek employment with a C-10 contractor in order to earn their required on-the-job hours. Students completing this certificate will acquire skills in the principles of electricity, circuitry, and power distribution, electrical building and safety codes.

WHAT YOU WILL LEARN

Understand and identify materials and methods used in the Electricians trade. Recognize electrical hazards, hand/power tools and understand their use in regards to OSHA regulations. Read plans, create a materials list, and demonstrate their skills through a variety of demonstrations.

Wire motor controls, motors, diagnose electrical malfunctions and hazards of motors.

Design and install service entrances, above and below grade, and install transformers

Successfully complete the electrician journeymen exam.

WHERE DO YOU SEE YOURSELF?

Home repair and maintenance ● Electric contractor ● Electric service and utility provider ● Lineman ● Inside Wireman Maintenance Electrician Technician ● Aeronautical Electrician ● Industrial Electrician ● Facilities Electrician

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CTE DEAN’S OFFICE ◆ TULARE COLLEGE CENTER ◆ 4999 E. Bardsley Ave. Tulare, CA 93274 ◆ 559-688-
**DEGREES & CERTIFICATES OFFERED**

Certificate of Achievement in NCCER Electrical Theory – 16 units

Certificate of Achievement in NCCER Electrical Applications – 16 units

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**SOME CLASSES YOU MIGHT TAKE**

**ET 200 Intro to Electrician Training**

This is the first course in a series of state-approved Electrician Training classes. Topics include basic safety, math, tools, blueprints, and rigging. NCCER Modules 1-16.

**ET 201 Electrician Training 1**

This is an electrical course in a series of state-approved Electrician Training classes. Topics include electrical theory, introduction to NEC codes, electrical blue prints, hand bending, fasteners, anchors, test equipment, raceways, boxes, fittings, and residential wiring.

**ET 202 Electrician Training 2**

This is an electrical course in a series of state-approved Electrician Training classes. Topics include commercial and industrial wiring, AC motor theory and application, grounding, conduit bending, boxes and fittings, and conductor installations. NCCER Modules 26-32.

**ET 203 Electrician Training 3**

This is an electrical course in a series of state-approved Electrician Training classes. Topics include voice and data systems, fiber optics, cable tray, conductor terminations and splices, electric services, breakers, contactors and relays, and lighting circuits. This course includes NCCER Modules 27-33.

**ET 204 Electrician Training 4**

This is an electrical course in a series of state-approved Electrician Training classes. Topics include calculations, overcurrent protection, raceway, box, and fitting fill, wiring devices, and distribution equipment. NCCER Modules 34-40 are covered in this course.

**ET 205 Electrician Training 5**

This is an electrical course in a series of state-approved Electrician Training classes. Topics include distribution system transformers, lighting, motor calculations, maintenance, and hazardous locations. NCCER Modules 41-47.

**ET 206 Electrician Training 6**

This is an electrical course in a series of state-approved Electrician Training classes. Topics include load calculations, lighting, standby/emergency systems, electronic theory, fire alarm systems, and specialty transformers. NCCER Modules 48-53.

**ET 207 Electrician Training 7**

This is an electrical course in a series of state-approved Electrician Training classes. Topics include motor controls, HVAC controls, motor maintenance, high-voltage terminations/splices, foremanship, and NEC code review. NCCER Modules 54-60.

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**REQUIREMENTS**

Please see our online catalog for specific requirements in this area: [www.cos.edu/catalog](http://www.cos.edu/catalog)

Visit our website at [www.cos.edu/IndTech](http://www.cos.edu/IndTech)