

START HERE. GO ANYWHERE.



SOUTHERN CAREERS INSTITUTE
ELECTRICAL TECHNICIAN



Call Now 1.833.SCI.TEXAS or Scan the QR Code to Learn More



LEARN it.

Our Electrical Technician students will have the opportunity to train to:

- Achieve theoretical knowledge and skills on installation, operation, maintenance, and repair of electrical systems such as residential, and commercial
- Apply practical skills with DC/AC motors and controls, and electrical distribution panels
- Install, maintain, and repair electrical equipment and systems in a safe, competent, and professional manner

Electrical Technicians can learn how to work in a variety of roles, such as:

- General Service & Repairs Technician
- Maintenance Technician
- Electrician Apprentice
- Commercial/Industrial Helper
- Technician
- Supervisor
- General Electrician Helper
- Controls Technician

Length of Program*

27
WEEKS
DAY
CLASSES

**With successful full-time enrollment.*

Earn the following 18 Skill Badges conveying proficiency in your field:



Trade Safety



Construction Basics



Electrical Theory



Wiring



Motors & Controls



Maintenance & Troubleshooting



Residential Wiring



Grounding & Bonding



Conductors



Electrical Distribution



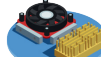
Lighting Systems



Programmable Controllers



Electrical Components



Electrical Equipment



Electrical Calculations



Commercial Wiring



Electrical Applications



Installations



TRD100 Trade Safety & Construction Basics
Covers topics such as basic safety, communication skills, & introduction to construction drawings.

ELC120 Electrical Theory & Concepts of Wiring
Basic electrical concepts, electron theory, voltage, current (AC/DC), resistance, inductance, capacitance & common units of electrical measurement. Properly calculate, layout, & bend tubing & wiring. Types of conductors, wiring techniques, electrical prints, drawings, & information found on schematics & wiring diagrams

ELC121 Motors, Controls, Maintenance & Troubleshooting
Introduction to AC & DC motors, main components, circuits, & connectors, selecting, sizing, & installing motors. Skill review for inspecting, diagnosing, & maintaining electrical systems, components, & equipment

ELC122 Residential Wiring, Grounding & Bonding
Hands-on skills in wiring a single-family residence from permitting to final inspection. Grounding & bonding electrical system, importance & use of fuses, circuit breakers, contactors, & relays

ELC123 Conductors & Electrical Distribution
Types & applications of conductors & proper wiring techniques, including instructions on transportation, storage & setup of cable reels, pulls in raceways, termination, splicing, preparing & taping of conductors, conductor selection, & current carrying capacity Instruction on switchboards, switchgears, transformers, & connections, selection, sizing, installation, & protection

ELC124 Lighting Systems & Programmable Controllers
Introduction to the characteristics of lighting, focusing on the handling & installation of various layouts, wiring, & fixtures Applications & operating principles of solid-state controls, reduced-voltage starters, & adjustable frequency drives

ELC125 Electrical Components & Equipment
Basics of electrical components, circuits, insulation, carrying capacity, & voltage. Hazardous locations, overcurrent protection, & short circuit calculations & troubleshooting

ELC126 Electrical Calculations & Commercial Wiring
Calculations for branch circuit & feeder loads for residential & commercial applications, motor calculations, & factors involved in conductor selection Installation of conduit, equipment, & calculation of service. Safety, blueprint reading, & proper use & identification of materials associated with commercial wiring

ELC127 Electrical Applications & Specialized Installation
Functions & operations of electronic devices, instruction on termination, splices, cleaning, testing, & tracing Installations Special installation situations, materials, equipment, & services

Included National Certifications*



NCCER Core



NCCER Levels 1-4

Available National Certifications



OSHA-10

*Exam fee included in tuition and will be paid if taken within three months of program completion.

SPEAK WITH AN ADMISSION ADVISOR TODAY! 1.833.SCI.TEXAS or visit SCItexas.edu

Austin Main Campus
1701 W. Ben White Blvd., Ste. 100
Austin, TX 78704

Brownsville Branch Campus
935 North Expressway
Brownsville, TX 78520

Corpus Christi Branch Campus
2422 Airline Rd.
Corpus Christi, TX 78414

Harlingen Branch Campus
1122 Morgan Blvd.
Harlingen, TX 78550

Pharr Branch Campus
1500 North Jackson Rd.
Pharr, TX 78577

San Antonio-North Branch Campus
6963 NW Loop 410
San Antonio, TX 78238

San Antonio-South Branch Campus
238 Southwest Military Dr. Ste. 101
San Antonio, TX 78221

Waco Branch Campus
3700 S IH 35, Ste. A
Waco, TX 76706

*Past students' outcomes, starting salaries, and job prospects are not indicative of those for current and future students.
SCI does not guarantee employment or a starting salary upon graduation, completion, or withdrawal from SCI *Not all campuses offer all programs