

# South Carolina Upstate Merit Shop Electrical Contractor's Apprenticeship

## Department of Labor-registered Apprenticeship Training Program

*In cooperation with  
Associated Builders  
and Contractors, Inc.*



Upstate electrical  
contractor partners:



### Contact:

Larry Roberson  
(864) 250-8276  
Larry.Roberson@gvltec.edu



Search  
"Greenville  
Tech EDCT"

## South Carolina Upstate Merit Shop Electrical Contractor's Apprenticeship

is a partnership with Upstate Electrical Contractors, Associated Builders and Contractors of the Carolinas and Greenville Technical College to provide electrical training through classroom, lab, and live work experiences for employees working with the electrical contractors. The five-year apprenticeship program utilizes curriculum developed by the National Center for Construction Education and Research (NCCER) that covers NCCER Core Curriculum – Introductory Craft Skills and NCCER Electrical Level I to IV classes. Successful completers receive certificates from both the college and nationally recognized credentials from NCCER.

| Apprenticeship Level   | GTC Course Name            | Hours |
|------------------------|----------------------------|-------|
| First-Year Apprentice  | NCCER Core                 | 80    |
| Second-Year Apprentice | NCCER Electrical Level I   | 112.5 |
| Third-Year Apprentice  | NCCER Electrical Level II  | 127.5 |
| Fourth-Year Apprentice | NCCER Electrical Level III | 155   |
| Fifth-Year Apprentice  | NCCER Electrical Level IV  | 160   |

## STUDENTS CHOOSE CAREER PATH

This comprehensive program teaches the skills for both construction and maintenance electricians.

- **Construction electricians** lay out, assemble, install, and test electrical fixtures and wiring used in electrical systems on construction sites.
- **Maintenance electricians** maintain and keep many different types of electrical equipment in good working order principally by detecting and repairing defective equipment before a breakdown occurs.

## CURRICULUM AREAS

- Residential wiring and service
- Wiring alternatives
- Installation of electrical environmental circuits
- DC machines
- Commercial and industrial wiring
- Electrical maintenance
- Planning and site work on commercial/industrial jobs and services
- Power distribution transformers
- Single-phase transformers and AC machines
- Electrical motors and controls
- Three-phase transformers and AC machines
- PLCs
- Electrical aspects of HVAC and related facilities
- Emergency power systems and energy production
- Installation of electrical distribution systems (overhead and underground)

Greenville Technical College provides equal opportunity and affirmative action in education and employment for all qualified persons regardless of race, color, religion, sex, national origin, age, disability, sexual orientation, or veteran status.

