



**TENNESSEE COLLEGE
OF APPLIED TECHNOLOGY**
KNOXVILLE

Industrial Electricity

12 Month Program Offered at the Main Campus

Day Program (M-F, 8:00am to 2:30pm)

Night Program (M-F, 3:30pm to 10:00pm)

About

The Industrial Electricity is a NCCER program that utilizes classroom instruction and lecture, individualized modules, and hands-on experience to provide the student with the knowledge to be a electrical apprentice or electrical maintenance worker.

Graduates of the program will have a strong foundation in the basic principles of electricity, including motor generator principles; meters; testing equipment and instruments; blueprint reading and math; residential wiring; National Electric Code; and industrial wiring/distribution.

Curriculum and Courses

All full-time TCAT Knoxville programs include Workplace Characteristic courses each trimester.

- Orientation and Safety
- Basic Principles and Meters
- Basic Electronics
- National Electrical Code I & II
- Wiring
- Drawings and Documentation
- Motors and Transformers
- Motor Control and Timers I & II
- Installation Guidelines I
- NEC Commercial-Industrial
- Programmable Logic Controllers

Completion Awards

432 Electrician Helper Certificate

864 Electrician Apprentice II Diploma

1296 Electrician Apprentice I Diploma

Completion Rate (as of 2022)

81%

Placement Rate (as of 2022)

88%



[LEARN MORE!](#)

How To Apply

- Complete TCAT Knoxville Application for Enrollment online at www.tcatknoxville.edu.
- Complete the Free Application For Federal Student Aid (FAFSA) online at www.studentaid.gov. Our school code is 004025.