



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.