



Industrial Electricity

The Industrial Electricity is a **NCCER** program that utilizes classroom instruction and lecture, individualized modules, and hands-on experience at job sites to provide the student with the knowledge to be a residential electrician, pre-journeyman, journeyman, electrical maintenance worker, or electrical technician. 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; industrial wiring/distribution; related electronics; and shop management and records.

Program/Location	Length	Days	Time
Day Program/Knoxville Campus	12 Months	Monday-Friday	8:00 am—2:30 pm
Night Program/Knoxville Campus	12 Months	Monday-Friday	3:30 pm—10:00 pm

Curriculum/Courses	Completion Award	Required Hours
INE 0001 Worker Characteristic	Electrician Helper	Certificate 432
INE 1010 Orientation and Safety	Electrician Apprentice Class II	Certificate 864
INE 1020 Basic Principles and Meters	Electrician Apprentice Class I	Diploma 1296
INE 1030 Basic Electronics		
INE 1040 National Electrical Code I		
INE 1050 Wiring		
INE 4050 Drawings and Documentation		
INE 0002 Worker Characteristic		
INE 2010 National Electrical Code II		
INE 2020 Motors and Transformers		
INE 2030 Motor Control and Timers I		
INE 0003 Worker Characteristic		
INE 3010 Motor Control and Timers II		
INE 3020 Installation Guidelines I		
INE 4030 NEC Commercial-Industrial		
INE 4040 Programmable Logic Controllers		

Typical Job Opportunities

Electrical Companies
Manufacturers
Hospitals

HOW TO APPLY

- ⇒ Complete the **Free Application For Federal Student Aid (FAFSA)** online – the website is www.fafsa.ed.gov and our school code is 004025.
- ⇒ Complete **TCAT Knoxville Application for Enrollment** online at www.tcatknoxville.edu and select **APPLY NOW**