



**TENNESSEE COLLEGE  
OF APPLIED TECHNOLOGY**  
—MURFREESBORO—

## Industrial Electrical Maintenance

### Course Description

The mission of the Industrial Electrical Maintenance Program is to provide diversified maintenance training to students to meet the occupational needs of prospective employers in our community.

This course will provide you with a thorough understanding of the methods of diagnosing, troubleshooting, and repairing industrial equipment. Each unit of study is approached by starting with the basic theory involved. You will receive actual experience on equipment with factory approved methods of repairing and maintaining them.

You will receive a high degree of individual instruction and learn the use of tools, special equipment, technical manuals, circuit analysis, service specifications, diagnosis and methods of repair. Written and performance tests are given to record your progress. The instructor will train you in disassembly, repair, and reassembly of hydraulic, pneumatic, mechanical and electrical systems on industrial equipment.

If you qualify, you may spend part of your training day working part-time in the industry with a company in the local area. You may be able to earn money, gain experience on the job, and learn in the actual work environment while enrolled at the College.

### Units of Study

Basic Electricity/Electronics	Welding Fundamentals
Industrial Electricity/Electronics	HVAC Fundamentals
Mechanical/Fluid Power	Machining Fundamentals
Maintenance/Troubleshooting	Thermo Processing
Programmable Logic Controllers (PLCs)	

### Certificates

Electrician Helper	432 Hours
Maintenance Apprentice	864 Hours

### Diplomas

Electrical Repairer	1296 Hours
Industrial Maintenance Technician	1728 Hours

Consumer Info at  
<http://www.tcatmurfreessboro.edu/fulltime-programs/industrial-electrical-maintenance>

**Tennessee College of Applied Technology  
Murfreessboro**

1303 Old Fort Parkway—Murfreessboro, TN 37129  
Phone: (615) 898-8010 Fax: (615) 893-4194  
[www.tcatmurfreessboro.edu](http://www.tcatmurfreessboro.edu)

TCATM-IEM13

### Admission Requirements:

- Complete TCATM Application
- Provide a high school diploma/transcript or GED transcript
- Proof of MMR and Varicella immunizations
- Personal Interview

Dual enrollment is available for this course.

### Financial Aid

Financial Aid is available to those who qualify through the Federal Pell Grant, Wilder-Naifeh Technical Skills Grant, WIA, VA, and other Scholarships.

### About the College...

The Tennessee College of Applied Technology Murfreessboro is located near the geographical center of the state, just off of Interstate 24 and the intersection of State Highways 96 and 99. The College is governed by the Tennessee Board of Regents and is accredited by the Commission of the Council on Occupational Education.

The College offers a variety of programs to fill demonstrated needs in the local community. Our students come from Rutherford and the surrounding counties. The instructors are all professionals in the fields in which they teach and several have been recognized statewide and nationally.

Full-time preparatory classes are scheduled five days a week for six hours a day. In addition to full-time day classes, supplemental classes are offered each term. A new evening schedule is prepared for each term.

The calendar of the Tennessee College of Applied Technology Murfreessboro is based on three equal trimesters that include a minimum of 216 instructional days. The three trimesters are:  
Fall—September, October, November, December  
Spring—January, February, March, April  
Summer—May, June, July, August

### -STATEMENT OF ASSURANCE-

Tennessee College of Applied Technology Murfreessboro is an AA/EEO employer and does not discriminate on the basis of race, color, national origin, sex, disability, or age in its programs and activities. The following person has been designated to handle inquiries regarding the non-discrimination policies: Assistant Director, Tennessee College of Applied Technology Murfreessboro, 1303 Old Fort Parkway, Murfreessboro, TN 37129, 615-898-8010, [jhenegar@tcatmurfreessboro.edu](mailto:jhenegar@tcatmurfreessboro.edu). Additionally, the Tennessee College of Applied Technology Murfreessboro's Title IX Coordinator, 1303 Old Fort Parkway, Murfreessboro, TN 37129, 615-898-8010, [jhenegar@tcatmurfreessboro.edu](mailto:jhenegar@tcatmurfreessboro.edu).



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Tennessee College of Applied Technology Murfreessboro, a unit  
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