



# TENNESSEE COLLEGE OF APPLIED TECHNOLOGY

PULASKI

1233 East College Street, Pulaski, TN 38478  
931-424-4014 [www.tcatpulaski.edu](http://www.tcatpulaski.edu)

## ELECTRICAL AND PLUMBING CONSTRUCTION TECHNOLOGY

The mission of the Electrical and Plumbing Construction Technology program is to prepare students for a career as an electrician and/or plumber in the fast growing construction industry. Graduates of the Electrical and Plumbing Construction Technology program will possess a number of valuable skills such as electrical theory, residential/commercial print reading and wiring techniques, load calculations, conduit bending, National Electric Code, plumbing fixtures and installation, pipes and fittings, water distribution and drainage installations. Training includes both classroom (theory) and hands-on lab assignments designed to allow students to demonstrate the mastery of the core skills required for employment in the electrical and plumbing field.

### Employment Opportunities:

- Residential Electrical Contractors
- Commercial Electrical Contractors
- Residential Plumber
- Commercial Plumber

### Program Instructor:

Philip Richardson  
[philip.richardson@tcatpulaski.edu](mailto:philip.richardson@tcatpulaski.edu)  
931-424-2415

### ENROLLMENT INFORMATION

Classes Offered:	Full-Time: Monday-Friday 8-2:30 Part-Time: Monday-Friday 8-11 or 11:30-2:30
Program Length:	1296 Hours (3 trimesters)
Program Location:	Pulaski Main Campus 1233 East College Street Pulaski, TN 38478
Program Cost including Tuition, Fees plus Books/Supplies:	\$1,312 per trimester x 3 trimesters=3,936 \$1,873.69 Book/Supplies; Total Cost 5809.69* *These costs are subject to change
Requirements:	Complete the Admissions Process Checklist
Financial Aid:	Available to those who qualify

For more information about our graduation rates, the median debt of students who completed the program, and other important information, please visit our website [www.tcatpulaski.edu](http://www.tcatpulaski.edu)

*Career Training*  
Administrative Office  
Technology  
Advanced Manufacturing  
Education  
Building Construction  
Technology  
CNC Machining Technology  
Computer Operating  
Systems and Network  
Technology  
Electrical and Plumbing  
Construction Technology  
HVAC/R  
Industrial Electricity  
Industrial Maintenance  
Technology  
Patient Care Technology/  
Medical Assisting  
Pharmacy Technology  
Practical Nursing  
Residential/Commercial  
Wiring and Plumbing  
Welding Technology

*Campus Locations*  
Lawrenceburg  
Instructional Service  
Center  
North Lawrence  
Instructional  
Service Center  
Northfield Instructional  
Service Center  
South Lawrence  
Instructional  
Service Center

Tennessee College of Applied Technology-Pulaski does not discriminate on the basis of race, color, religion, creed, ethnic or national origin, sex, disability, age status as a protected veteran or any other class protected by Federal or State laws and regulations and by Tennessee Board of Regents policies with respect to employment, programs, and activities. The following person has been designated to handle inquiries regarding nondiscrimination policies: Mike Whitehead; [mike.whitehead@tcatpulaski.edu](mailto:mike.whitehead@tcatpulaski.edu); P.O. Box 614; Pulaski, TN 38478; 931-424-2420.

## EPCT Course Outline

<b>First Trimester</b>	
Worker Characteristics	6 Hours
Orientation/Safety/Alcohol Edu & Haven	8 Hours
OSHA and Safety	22.5 Hours
Technology Foundations	24 Hours
Math Review	30 Hours
Tools (Safety & Instruction)	6 Hours
Electrical Theory (Basic AC Theory & Ohms Law)	75 Hours
The National Electrical Code (NEC 2011)	162 Hours
Residential Wiring Basics & Lab	66 Hours
Multi-Meters	32.5 Hours
<b>OSHA 10 Certification</b>	
<b>Snap On Multimeter Certification</b>	
<b>Residential Wiring Helper Certificate</b>	
	<b>432 Hours</b>
<b>Second Trimester</b>	
Worker Characteristics	6 Hours
Class Project Residential-Commercial	60 Hours
Advanced Residential-Commercial Wiring and Transformers	214 Hours
National Electrical Code-Advanced Codeology (NEC 2011) Load Calculations, Motors & App	115 Hours
Conduit-Bending	15 Hours
Bonding & Grounding	22 Hours
<b>Residential and Commercial Wiring Helper Certificate</b>	
	<b>864 Hours</b>
<b>Third Trimester</b>	
Worker Characteristics	6 Hours
Plumbing Safety	12 Hours
Plumbing Tools	6 Hours
Types of Pipe, Fitting, and Valves	60 Hours
Fixtures and Equipment Installation	98 Hours
Water Distribution Installation	98 Hours
Drainage, Waste, Vent Installation	98 Hours
Troubleshooting	54 Hours
<b>Plumbing Helper Certificate</b>	
<b>Residential and Commercial Electrician and Plumbing Diploma</b>	
	<b>1296 Hours</b>

For More Information Please Contact  
 Student Services Department  
 P.O. Box 614, Pulaski, TN 38478  
 931-424-4014

Accredited Member  
 Commission of the Council on Occupational Education  
 7840 Roswell Road, Building 300 Suite 325  
 Atlanta, GA 30350  
 Phone: (770) 396-3898 \* (800) 917-2081