



# TENNESSEE COLLEGE OF APPLIED TECHNOLOGY

**PULASKI**

1233 East College Street, Pulaski, TN 38478  
931-424-4014 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

### 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 Pulaski, TN 38478
Program Cost including Tuition, Fees plus Books/Supplies:	\$1,216 per trimester x 3 trimesters \$1,900 Book/Supplies; Total Cost \$5,548* *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  
CNC Machining Technology  
Computer Operating  
Systems and Network  
Technology  
Electrical and Plumbing  
Construction Technology  
HVAC/R  
Industrial Electricity  
Industrial Maintenance  
Technology  
Pharmacy Technician  
Practical Nursing  
Residential Construction  
Technology  
Residential/Commercial  
Wiring and Plumbing  
Welding Technology

*Online Programs*  
Administrative Office  
Technology

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

AA/EEO

The Tennessee College of Applied Technology-Pulaski does not discriminate on the basis of race, color, national origin, sex, veteran status, disability or age in its programs and activities. The following person has been designated to handle inquiries regarding the non-discrimination policies: Mike Whitehead; [mike.whitehead@tcatpulaski.edu](mailto:mike.whitehead@tcatpulaski.edu) or 931-424-2420.

# Course Outline

<b>First Trimester Electrical Wiring (Core Subjects)</b>	<b>432 Hours</b>
• Orientation, Safety, Alcohol Edu, & Haven Training .....	8 Hours
• OSHA and Safety .....	22.5 Hours
• Tech Foundations .....	30 Hours
• Math Review .....	30 Hours
• Tools (Safety & Instruction) .....	11.5 Hours
• Electrical Theory (Basic AC Theory & Ohms Law) .....	75 Hours
• The National Electrical Code (NEC 2011) .....	30 Hours
• Residential Wiring Basics & Lab .....	165 Hours
• Multi-Meters .....	<u>60 Hours</u>
	<b>432 Hours</b>
<b>National Career Readiness Certification</b>	
<b>OSHA 10 Certification</b>	
<b>Snap On Multimeter Certification</b>	
<b>Residential Wiring Helper Certificate</b>	

<b>Second Trimester (Residential &amp; Commercial Electrician)</b>	<b>432 Hours</b>
• Class Project Residential/Commercial .....	60 Hours
• Advanced Residential/Commercial Wiring, & Transformers .....	220 Hours
• National Electrical Code/Advanced Codeology (NEC 2011) + Load Calculations, Motors & App... ..	115 Hours
• Conduit-Bending .....	15 Hours
• Bonding & Grounding .....	<u>22 Hours</u>
	<b>432 Hours</b>
<b>Residential/Commercial Wiring Helper Certificate</b>	<b>864 Hours</b>

<b>Third Trimester (Plumbing)</b>	<b>432 Hours</b>
• Plumbing Safety .....	12 Hours
• Plumbing Tools .....	6 Hours
• Types of Pipe, Fitting, and Valves .....	60 Hours
• Fixtures and Equipment Installation .....	78 Hours
• Water Distribution Installation .....	78 Hours
• Drainage, Waste, Vent Installation .....	78 Hours
• Troubleshooting .....	60 Hours
• Internship .....	<u>60 Hours</u>
	<b>432 Hours</b>
<b>Residential Wiring Helper Certificate</b>	<b>432 Hours</b>
<b>Residential/Commercial Wiring Helper Certificate</b>	<b>864 Hours</b>
<b>Plumbing Helper/Certificate</b>	<b>432 Hours</b>
<b>Residential/Commercial Electrician &amp; 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  
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