



# TENNESSEE COLLEGE OF APPLIED TECHNOLOGY

PULASKI

1233 East College Street, Pulaski, TN 38478  
931-424-4014 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  
Heating, Ventilation, Air  
Conditioning and Refrigeration  
Industrial Electricity  
Industrial Maintenance  
Technology  
Patient Care Technology/  
Medical Assisting  
Pharmacy Technology  
Practical Nursing  
Residential/Commercial  
Wiring & Plumbing  
Welding Technology

## Training Locations

Main Campus (Pulaski, TN)  
Lawrence County Instructional  
Service Center  
Lawrenceburg Instructional  
Service Center  
North Lawrence Instructional  
Service Center  
South Lawrence Instructional  
Service Center

## INDUSTRIAL MAINTENANCE TECHNOLOGY

The mission of the Industrial Maintenance Technology Program is to train students with the broad range of skills to compete in today's technological environment as a multi-craft maintenance technician. Trainees learn the fundamentals of electricity, welding, and mechanical. Students are being trained for work with electric motor control, automated machine control, circuits, conveyors, pumps, pneumatic and hydraulic systems, test equipment, production equipment (electrical, electronic, and mechanical), welding, HVAC/R, plastics and injection molding, programmable controllers and automation. In the last phase of the course, students combine all their newly acquired skills in overall systematic troubleshooting and interfacing systems to qualify for an Industrial Maintenance Technician Diploma.

### Employment Opportunities:

- Manufacturing Industries
- Industrial Maintenance
- Welding Industries

### Program Instructors:

**Electrician Helper & PLCs** - Chris Adcock  
chris.adcock@tcatpulaski.edu  
931-424-2418

**Gas Metal Arc Welding** - Josh Hughes  
**Heating & AC** - Chris Perkins  
**Robotics & Injection Molding** - Dalton Palfrey

### ENROLLMENT INFORMATION

Classes Offered:	Full-Time: Monday - Friday 8 to 2:30 Part-Time: Mon - Fri 8 to 11 or 11:30 to 2:30
Program Length:	1728 Hours (4 Trimesters)
Program Location:	Pulaski Main Campus 1233 East College St., Pulaski, TN 38478
Program Cost including Tuition, Fees plus Books/Supplies	\$1,336 per trimester x 4 trimesters = 5,344 \$3,588.03 Book/Supplies; Total Cost \$8,932.03* *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: <a href="http://www.tcatpulaski.edu">www.tcatpulaski.edu</a>	

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; P.O. Box 614; Pulaski, TN 38478; 931-424-2420.

# IMT Day Course Outline

<b>First Trimester (Module I)</b>	
Worker Characteristics	6 Hours
Orientation Safety Alcohol Edu & Haven Training	6 Hours
Technology Foundations	24 Hours
Electrical Safety	20 Hours
Related Math for Electricians	60 Hours
Electrical Principles	134 Hours
Digital Multimeter Principles	60 Hours
Printreading for Electro-Mechanical Systems	122 Hours
<b>First Trimester (Module I) Electrician Helper Certificate (C1)</b>	<b>432 Hours</b>
<b>Second Trimester (Module II)</b>	
Worker Characteristics	6 Hours
Introduction to Robotics	44 Hours
Electrical Motor Control Systems	194 Hours
Program Logic Control Concepts	188 Hours
<b>Second Trimester (Module II) Programmable Logic Controller Helper Certificate (C2)</b>	<b>864 Hours</b>
<b>Third Trimester (Module III)</b>	
Worker Characteristics	6 Hours
Welding Safety	6 Hours
Basic Blueprint Reading	36 Hours
Oxyacetylene Cutting & Welding	18 Hours
Basic GMAW and SMAW	150 Hours
<b>Third Trimester (Module III) Gas Metal Arc Welding Helper Certificate (C4)</b>	<b>216 Hours</b>
<b>Third Trimester (Module III)</b>	
Industrial Safety	18 Hours
Basic Industrial Mechanics	30 Hours
Basic Industrial Hydraulics	30 Hours
Basic Industrial Pneumatics	18 Hours
Introduction to Electrical Motor Control	18 Hours
Machining Operations (Lathe and Mill)	42 Hours
Troubleshooting Mechanical Systems	60 Hours
<b>Third Trimester (Module III) Mechanical Technician Helper Certificate (C3)</b>	<b>216 Hours</b>
<b>Completion of modules I, II, and III = Electro-Mechanical Maintenance Diploma (1296 Hours)</b>	<b>1296 Hours</b>

Continued on page 3

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

## IMT Day Course Outline

<b>Fourth Trimester (Module IV)</b>	
Worker Characteristics	6 Hours
OSHA 10	10 Hours
Safety	24 Hours
Refrigeration Fundamentals	100 Hours
Tools Equipment and Shop Practices	30 Hours
Electricity and Controls	130 Hours
Installation	76 Hours
Green Awareness	14 Hours
Employment Readiness Exam	12 Hours
EPA	30 Hours
<b>Industrial Maintenance Technician/HVAC Diploma (DPI)</b>	<b>1728 Hours</b>

<b>Fourth Trimester (Module IV)</b>	
Worker Characteristics	6 Hours
Robotic Maintenance	132 Hours
Robotic Theory and Lab I	120 Hours
Robotic Theory and Lab II	174 Hours
<b>Industrial Maintenance Technician/Robotics Diploma (DPII)</b>	<b>1728 Hours</b>

<b>Fourth Trimester (Module IV)</b>	
Worker Characteristics	6 Hours
Injection Molding Machine Safety	20 Hours
Basic Operation of Injection Molding	70 Hours
Types of Injection Molding Machine Power	75 Hours
Installation of the Injection Molding Machine	40 Hours
Preventive Maintenance Procedures	79 Hours
Injection Molding Machine Repair Procedures	82 Hours
Auxiliary Equipment Maintenance and Repair	60 Hours
<b>Industrial Maintenance Technician/Injection Molding Diploma (DPIII)</b>	<b>1728 Hours</b>

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