



**TENNESSEE
COLLEGE OF APPLIED TECH
PULASKI**

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

Career Training

- Administrative Office Technology
- Automation, Process & Production Systems
- Basic Dental Assisting
- Building Construction Technology
- CNC Machining Technology
- Computer Operating Systems Networking & Cybersecurity
- Criminal Justice: Correctional Officer
- 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

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	\$ 1,440.00 per trimester x 4 trimesters = \$5,760. \$2,244.00 Book/Supplies; Total Cost \$8,304* *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

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: Christa Williams, VP Student Services; christa.williams@tcatpulaski.edu; 931-424-2404; P.O. Box 614; Pulaski, TN 38478.

IMT Day Course Outline

First Trimester (Module I)	Hours
Worker Characteristics	6
Orientation Safety Alcohol Edu & Haven Training	6
Technology Foundations	24
Electrical Safety	20
Related Math for Electricians	60
Electrical Principles	134
Digital Multimeter Principles	60
Printreading for Electro-Mechanical Systems	122
First Trimester (Module I) Electrician Helper Certificate (C1)	432

Second Trimester (Module II)	Hours
Worker Characteristics	6
Introduction to Robotics	44
Electrical Motor Control Systems	194
Program Logic Control Concepts	188
Second Trimester (Module II) Programmable Logic Controller Helper Certificate (C2)	864

Third Trimester (Module III)	Hours
Worker Characteristics	6
Welding Safety	6
Basic Blueprint Reading	36
Oxyacetylene Cutting & Welding	18
Basic GMAW and SMAW	150
Third Trimester (Module III) Gas Metal Arc Welding Helper Certificate (C4)	216

Third Trimester (Module III)	Hours
Industrial Safety	18
Basic Industrial Mechanics	30
Basic Industrial Hydraulics	30
Basic Industrial Pneumatics	18
Introduction to Electrical Motor Control	18
Machining Operations (Lathe and Mill)	42
Troubleshooting Mechanical Systems	60
Third Trimester (Module III) Mechanical Technician Helper Certificate (C3)	216
Completion of modules I, II, and III = Electro-Mechanical Maintenance Diploma (1296 Hours)	1296

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

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

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