

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 Service Center South Lawrence Instructional Service Center

AUTOMATION, PROCESS & PRODUCTION SYSTEMS

Automation, Process & Production Systems' mission is to increase the number of available skilled workers for existing and emerging manufacturing jobs, enhance worker skills, and knowledge in manufacturing technologies and processes, help improve the productivity of the regions manufacturing industry, increase manufacturer's global competitive advantage, and provide manufacturing related technical assistance to local business and industry. This program offers three career paths: Robotics Automation, CAD Design, 3D printing, Programmable Logic Controls (PLC) Automation, and Plastics Injection Molding. Training in these areas are related to the high tech manufacturing industry of today's economy. Completion of the program yields an Engineering Technician Diploma.

Employment Opportunities:

- Manufacturing Industries
- Injection Molding Industries
- Robotic Industries

Program Instructor: Dalton Pelfrey dalton.pelfrey@tcatpulaski.edu 931-424-2416

EN	ROLLMENT 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:	1296 Hours (3 trimesters)
Program Location:	Pulaski Main Campus 1233 East College Street, Pulaski, TN 38478
Program Cost including Tuition, Fees, plus Books/Supplies	\$1,440 per trimester x 3 trimesters =\$4,320 \$587.00 Books/Supplies; Total Cost \$4,907.00* *These costs are subject to change.
Requirements:	Complete the Admissions Process Checklist
Financial Aid:	Available to those who qualify
	bout our graduation rates, the median debt of students gram, and other important information, please visit our ski.edu

Tennessee College of Applied Technology-Pulaski does not discriminate on the basis of race, color, religion, creed, ethnicity 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 non-discrimination policies: Christa Williams, VP Student Services; christa.williams@tcatpulaski.edu; 931-424-2404. The TCAT-Pulaski policy on non-discrimination can be found at tcatpulaski.edu.

APPS Course Outline

First Trimester	Hours	Second Trim
Worker Characteristic	6	Worker Cha
Technology Foundations	24	
Principles of Lean Manufacturing/Six Sigma	72	Basic Mecha
OSHA and Safety Fundamentals	30	Basic Hydrau
Essentials Fundamentals of Industry	42	Basic Pneum
Quality Fundamentals and Measurements	72	Industry 4.0
Introduction to CAD	30	Applied Prin
Introduction to 3D Printing	30	Advanced H
Metrology Equipment Fundamentals	72	Manual Mac
Industrial Components	54	Mechanical
Production Technician Certificate	432 Hours	HIRD TRIMEST

Second Trimester	Hours
Worker Characteristic	6
Basic Mechanical Theory and Lab	42
Basic Hydraulics Theory and Lab	72
Basic Pneumatics Theory and Lab	48
Industry 4.0 Fundamentals	30
Applied Principles of Industry 4.0	78
Advanced Hydraulics and Pneumatics	78
Manual Machining Fundamentals	78
Mechanical Systems Technician Certificate	864 Hours

THIRD TRIMESTER LIIVES

Third Trimester ELECTIVES	Hours
Worker Characteristic	6
Injection Molding Theory and Lab	240
Advanced Molding Theory and Lab	108
Tool and Die	78
Injection Molding Technician Diploma	1296 Hours

Third Trimester ELECTIVES	Hours
Worker Characteristic	6
Fundamentals of Materials	30
Technical Drawing Fundamentals	60
Data Processing for Manufacturing	30
CAD for 3D Printing	120
3D Scanning	30
Industrial 3D Printing	120
Design Project	36
Additive Manufacturing Technician Diploma	1296 hours

Third Trimester ELECTIVES	Hours
Worker Characteristic	6
Industrial Robotic Theory and Lab	210
Advanced Robotic Programming &	
Troubleshooting	156
Industrial Robotic Maintenance	60
Robotic Automation Technician Diploma	1296 Hours

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