



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 and
Production Systems
Basic Dental Assisting
Building Construction Technology
CNC Machining Technology
Computer Operating Systems,
Networking and Cybersecurity
Criminal Justice/Correctional
Officer
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

CNC MACHINING TECHNOLOGY

The mission of the CNC (Computer Numerical Control) Machining Program is to provide the student with a broad range of experience of all machine tools that one will come in contact with after graduation and throughout their career. Machinists, tool and die makers, industrial maintenance employees and machine operators all require skills in the machining of metal by machine tools. The CNC Program includes instruction relating to safety, blueprint reading, mathematics, manual milling and turning machines, drill presses, grinders, wire EDM machines, CNC lathes, and CNC milling equipment. Other areas include layout work, precision measuring and metallurgy. A wide range of opportunities await graduates of the CNC Machining Technology Program.

Employment Opportunities:

- Machine Shops
- Tool and Die Maker
- Industrial Maintenance

Program Instructor:

Robert Fulford
robert.fulford@tcatpulaski.edu
931-424-4014

ENROLLMENT INFORMATION

Classes Offered:	Full-Time: Monday- Friday 8-2:30 Part-Time: Monday-Friday 8-11 or 11:30-2:30
Program Length:	1,728 Hours (4 Trimesters)
Program Location:	Lawrence County Instructional Service Center 100 Hicks St. Lawrenceburg, TN 38464
Program Cost including Tuition, Fees plus Books/Supplies:	\$1,440 per trimester x 4 trimesters=5,760 \$2,303 Books/Supplies; Total Cost \$8,063.00* *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.

CNC Machining Technology Course Outline

First Trimester	Hours
Worker Characteristics	6
Orientation Safety Alcohol Education and Haven Training	6
Technology Foundations	24
Related Mathematics	45
Basic Blue Print Reading	60
Shop Safety	15
Hand Tools	20
Measuring Tools	10
Drill Presses and Sharpening Drills	20
Materials and Heat Treating	10
Layout	20
Preparation for Machining Operators	10
How to Use the Haring Speed and Feed Calculator	10
Sawing Machines	16
Turning Machines	20
Tool Materials and Single Point Cutting Tools	10
Manual Lathe Projects	85
Milling Cutters and Milling	25
Tramming Milling Head and Vise	20
Pass Measurement Materials and Safety Certification (NIMS)	432

Second Trimester	Hours
Worker Characteristics	6
Manual Mill Projects Combined with Lathe Projects	180
Grinding and Abrasive Machining Processes	30
Advanced Blue Print Reading	50
Advanced Mathematics	50
Advanced Machining Processes	10
Wire EDM Basic Machine Functions	23
Wire EDM Projects	63
EDM Die Sinking	20
Pass Job Planning, Benchwork & Layout Certification (NIMS)	
Production Machine Tender Certificate	864

Third Trimester	Hours
Worker Characteristics	6
Basic CNC Programming	105
CNC Lathe Machine Functions	53
CNC Lathe Projects	150
Manual Lathe and Mill Projects	118
Machine Set-Up Operator Certificate	1296

Fourth Trimester	Hours
Worker Characteristics	6
Geometric Dimensioning and Tolerance	64
Master Cam and CNC Communications	120
Master Cam Generated Programs for CNC	134
Comprehensive Practical Applications	48
Internship/Final Project	60
Machinist I Diploma	1728

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

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