



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
HVAC/R
Industrial Electricity
Industrial Maintenance
Technology
Patient Care Technology/
Medical Assisting
Pharmacy Technology
Practical Nursing
Residential/Commercial Wiring
and Plumbing
Welding Technology

Campus Locations

Lawrenceburg Instructional
Service Center
North Lawrence Instructional
Service Center
Northfield 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:

David Kimbrell
david.kimbrell@tcatpulaski.edu
931-489-5974

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:	Northfield Instructional Service Center 5000 Northfield Lane, Spring Hill, TN 37174
Program Cost including Tuition, Fees plus Books/Supplies:	\$1,312 per trimester x 4 trimesters=5,248 \$2417.74 Books/Supplies; Total Cost \$7,665.74* *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, 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: Mike Whitehead, President; mike.whitehead@tcatpulaski.edu; 931-424-2420. The TCAT-Pulaski policy on non-discrimination can be found at www.tcatpulaski.edu.

CNC Machining Technology Course Outline

First Trimester	
Worker Characteristics	6 Hours
Orientation Safety Alcohol Education and Haven Training	6 Hours
Technology Foundations	24 Hours
Related Mathematics	45 Hours
Basic Blue Print Reading	60 Hours
Shop Safety	15 Hours
Hand Tools	20 Hours
Measuring Tools	10 Hours
Drill Presses and Sharpening Drills	20 Hours
Materials and Heat Treating	10 Hours
Layout	20 Hours
Preparation for Machining Operators	10 Hours
How to Use the Haring Speed and Feed Calculator	10 Hours
Sawing Machines	16 Hours
Turning Machines	20 Hours
Tool Materials and Single Point Cutting Tools	10 Hours
Manual Lathe Projects	85 Hours
Milling Cutters and Milling	25 Hours
Tramming Milling Head and Vise	20 Hours
Pass Measurement Materials and Safety Certification (NIMS)	432 Hours
Second Trimester	
Worker Characteristics	6 Hours
Manual Mill Projects Combined with Lathe Projects	180 Hours
Grinding and Abrasive Machining Processes	30 Hours
Advanced Blue Print Reading	50 Hours
Advanced Mathematics	50 Hours
Advanced Machining Processes	10 Hours
Wire EDM Basic Machine Functions	23 Hours
Wire EDM Projects	63 Hours
EDM Die Sinking	20 Hours
Pass Job Planning, Benchwork & Layout Certification (NIMS)	
Production Machine Tender Certificate	864 Hours

please see curriculum 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

CNC Machining Technology Course Outline

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

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



National Institute for Metalworking Skills®

NIMS ACCREDITED PROGRAM

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