Mission

The Tennessee Colleges of Applied Technology serve as the premier suppliers of workforce development throughout the State of Tennessee. The Colleges fulfill their mission by:

- Providing competency-based training through superior quality, traditional and distance learning instruction methods that qualify completers for employment and job advancement;
- Contributing to the economic and community development of the communities served by training and retraining employed workers;
- Ensuring that programs and services are economical and accessible to all residents of Tennessee; and
- Building relationships of trust with community, business, and industry leaders to supply highly skilled workers in areas of need.

<table>
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<th>College Preview Days 2020</th>
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| 1/21  7/21  
| 2/18  8/18  
| 3/17  9/15  
| 4/21  10/20  
| 5/19  11/17  
| 6/16  12/15  |

All tours start at 9am and are open to the public.

Machine Tool Technology

Start a new career in 16 months or less!

910 Miller Avenue
Crossville, TN 38555
tcatcrossville.edu
931-484-7502
Machine Tool Technology

Description:
This program is instructed by Troy Hayes. The work of machine tool operators, machinists, tool and die makers, industrial maintenance personnel and those in related occupations requires skill in machining metal by such machine tools as milling machines, lathes, grinders, drill presses, CNC milling machines, EDM machines and the ability to use precision measuring tools. The course in machine shop is designed to give students experience on a variety of machine tools similar to those on which they will work after graduation. Instruction is given in related blueprint reading and mathematics, precision measuring, and such basic metallurgy as properties of metals, their workable characteristics, heat treatment of metals, and relative hardness.

Credentials
Production Machine Tender Certificate
432 hours
Machine Set-Up Operator Certificate
864 hours
General Machinist Diploma
1296 hours
Machinist I Diploma
1728 Hours

Curriculum/Courses

First Trimester:
MTT 0001 Worker Characteristic
MTT 1010 Technology Foundation
MTT 1020 Orientation & Practical Safety
MTT 1030 Math Concepts I
MTT 1040 Engineering Drawings I
MTT 1050 Shop Theory I
MTT 1060 Bench work & Manual Machine Tool

Second Trimester:
MTT 0002 Worker Characteristic
MTT 2010 Math Concepts II
MTT 2020 Engineering Drawings II CAD
MTT 2030 Shop Theory II
MTT 2040 Manual Lathe
MTT 2050 Manual Milling Machine
MTT 2060 Grinding and Abrasive Machines
MTT 2070 Mfg Materials & Processes
MTT 2080 Intro to Comp Numerical Ctrl

Third Trimester:
MTT 0003 Worker Characteristic
MTT 3010 Engineering Drawings III CAM
MTT 3020 Shop Theory III
MTT 3030 Precision Grinding
MTT 3040 Comp Numerical Ctrl Machining

Fourth Trimester:
MTT 0004 Worker Characteristic
MTT 4010 Employability Skills
MTT 4020 Intro to Additive Mfg
MTT 4030 Shop Theory IV
MTT 4040 CNC Turning Center
MTT 4050 CNC Machining Center
MTT 4060 Electrical Discharge Machining

Total Tuition/Fees $5,248.00
Textbook/Supplies Cost $219.00

Prices are subject to change due to increases in tuition, books, and supplies.