1100 Liberty Street | Knoxville, TN 37919 T: 865-546-5567 | F: 865-971-4474 www.tcatknoxville.edu

Machine Tool Technology

TENNESSEE COLLEGE OF APPLIED TECHNOLOGY

KNOXVILLE

The Machine Tool Technology program develops basic skills in machine tool operations and provides experience on a variety of machine tools such as lathes, milling machines, computer numerical control (CNC) machines, and the CAD-CAM. Related math, blueprint reading, precision measuring, basic metallurgy, and heat treating are included. Graduates of the Machine Tool Technology program will be able to operate the lathe, milling machines such the CNC machine, surface grinders, and perform heat treating operations.

	Program/Location	Length	Days	Time	
Day Program/ACHEC and Knoxville Campus		16 Months	Monday—Friday	8:00 am—2:30 pm	
	Curriculum/Courses	MTT 40	020 Intro to A	dditive Mfg	
MTT 0001	Worker Characteristic	MTT 4030 Shop Theo		ory IV	
MTT 1010	Technology Foundations				
MTT 1020	Orientation and Practical Safety	MTT 4040 CNC Turni		ing Center	
MTT 1030	Math Concepts I	MTT 40	050 CNC Mac	hining Center	
MTT 1040	Engineering Drawings I	MTT 40)60 Electrical	Electrical Discharge Machining	
MTT 1050	Shop Theory I				
MTT 1060	Benchmark & Manual Machine Tool	-			
MTT 0002	Worker Characteristic	Completion Awards Production Machine Tender Machine Set-Up Operator General Machinist Machinist I		-	
MTT 2010	Math Concepts II				
MTT 2020	Engineering Drawings II CAD			864	
MTT 2030	Shop Theory II			1296 1728	
MTT 2040	Manual Lathe	wachinist	1	1720	
MTT 2050	Manual Milling Machine	Completion Rate 2021: 90% Placement Rate 2021: 94%			
MTT 2060	Grinding and Abrasive Machines				
MTT 2070	Mfg Materials & Processes	HOW TO APPLY All Documents Must be Presented Together to Apply			
MTT 2080	Intro to Comp Numerical Ctrl Machining				
MTT 0003	Worker Characteristic	⇒ Complete the Free Application For Federal Student Aid (FAFSA) online – the website is <u>www.studentaid.gov</u> and our school code is			
MTT 3010	Engineering Drawings III CAM				
MTT 3020	Shop Theory III				
MTT 3030	Precision Grinding	004025.			
MTT 3040	Comp Numerical Ctrl Machining	⇒ Complete TCAT Knoxville Application for Enrollment online at www.tcatknoxville.edu and			
MTT 0004	Worker Characteristic				
MTT 4010	Employability Skills	select APPLY NOW			