

MTT 4010

Employability Skills

Machine Tool Technology

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 4	020 Intro to A	dditive Mfg	
MTT 0001	Worker Characteristic			orv IV	
MTT 1010	Technology Foundations				
MTT 1020	Orientation and Practical Safety			Turning Center	
MTT 1030	Math Concepts I			hining Center	
MTT 1040	Engineering Drawings I	MTT 4	.060 Flectrical	Electrical Discharge Machining	
MTT 1050	Shop Theory I	IVIII -	Electrical		
MTT 1060	Benchmark & Manual Machine Tool				
MTT 0002	Worker Characteristic	Completion AwardsRequired HoursProduction Machine Tender432Machine Set-Up Operator864General Machinist1296Machinist I1728		•	
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	Completion Rate 2021: 90% Graduation 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			
MTT 3010	Engineering Drawings III CAM	Student Aid (FAFSA) online – the website is www.studentaid.gov and our school code is 004025. ⇒ Complete TCAT Knoxville Application for Enrollment online at www.tcatknoxville.edu and			
MTT 3020	Shop Theory III				
MTT 3030	Precision Grinding				
MTT 3040	Comp Numerical Ctrl Machining				
MTT 0004	Worker Characteristic				

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