

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.

Progra	Location		Length Da		Days	Time		
Day Progr	ram TCAT Knoxville Main Campus		16	Months	Monday-Frida	y 8:	00am—2:30 pm	
Day Progr	TCAT Knoxville at Anderson County Campus		16	Months	Monday-Frida	y 8:	00am—2:30 pm	
Night Program TCAT Knoxville Main Campus			16	Months	Monday-Frida	y 3:3	80 pm—10:00 pm	
Curriculum/Courses		MTT 0004	4 Worker Characteristic					
MTT 0001	Worker Characteristic	MTT 4010	0	Employabil	ity Skills	Tunical lab Opportunities		
MTT 1010	Technology Foundations	MTT 4020	0	Intro to Ad	ditive Mfg		Typical Job Opportunities Machinist	
MTT 1020	Orientation & Practical Safety	MTT 4030	0	Shop Theo	ry IV	CNC Operator		
MTT 1030	Math Concepts I MTT 4040 CNC Turning		ng Center					
MTT 1040	Engineering Drawings I MTT 4		0	CNC Machining Center				
MTT 1050	Ship Theory I	MTT 4060 Electrical Discharge Machi			ning			
MTT 1060	Benchwork & Manual Machine Tool		Completion Award			Required Hours		
MTT 0002	Worker Characteristic	Dua du ati	-		wiii aata	•		
MTT 2010	Math Concepts II					rtificate	432	
MTT 2020	Engineering Drawings II CAD	Machine Set-up Operator		ator Ce	rtificate	864		
MTT 2030	Shop Theory II	General Macl		achinist	D	iploma	1296	
MTT 2040	Manual Lathe	Machinist I			D	iploma	1728	
MTT 2050	Manual Milling Machine		HOW TO APPLY					
MTT 2060	Grinding and Abrasive Machines							

All Documents Must be Presented Together to Apply

- ⇒ Complete the Free Application For Federal Student Aid (FAFSA) online – the website is www.fafsa.ed.gov and our school code is 004025.
- ⇒ Complete TCAT Knoxville Application for Enrollment online at https://apply.tbr.edu/?tcat=knoxville

Total Completion Rate 2017: 93%

Shop Theory III

Precision Grinding

Mfg Materials & Processes

Engineering Drawings III CAM

Comp Numerical Ctrl Machining

Worker Characteristic

Intro to Comp Numerical Ctrl Machining

MTT 2070

MTT 2080

MTT 0003

MTT 3010

MTT 3020

MTT 3030

MTT 3040