



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	TCAT Knoxville Main Campus	16 Months	Monday-Friday	8:00am—2:30 pm
Day Program	TCAT Knoxville at Anderson County Campus	16 Months	Monday-Friday	8:00am—2:30 pm
Night Program	TCAT Knoxville Main Campus	16 Months	Monday-Friday	3:30 pm—10:00 pm

Curriculum/Courses		Completion Award		Required Hours	
MTT 0001	Worker Characteristic	MTT 0004	Worker Characteristic		
MTT 1010	Technology Foundations	MTT 4010	Employability Skills		
MTT 1020	Orientation & Practical Safety	MTT 4020	Intro to Additive Mfg		
MTT 1030	Math Concepts I	MTT 4030	Shop Theory IV	Typical Job Opportunities Machinist CNC Operator	
MTT 1040	Engineering Drawings I	MTT 4040	CNC Turning Center		
MTT 1050	Shop Theory I	MTT 4050	CNC Machining Center		
MTT 1060	Benchwork & Manual Machine Tool	MTT 4060	Electrical Discharge Machining		
MTT 2010	Math Concepts II		Production Machine Tender		Certificate
MTT 2020	Engineering Drawings II CAD		Machine Set-up Operator	Certificate	864
MTT 2030	Shop Theory II		General Machinist	Diploma	1296
MTT 2040	Manual Lathe		Machinist I	Diploma	1728
MTT 2050	Manual Milling Machine				
MTT 2060	Grinding and Abrasive Machines				
MTT 2070	Mfg Materials & Processes				
MTT 2080	Intro to Comp Numerical Ctrl Machining				
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				

HOW TO APPLY

All Documents Must be Presented Together to Apply

1. Complete the Free Application For Federal Student Aid (FAFSA) online – the website is www.fafsa.ed.gov and our school code is 004025.
2. Complete TCAT Application for Enrollment (Form is Attached)

Total Placement Rate 2016: 92%



Machine Tool Technology

Book, Tool, and Supply List

1st Trimester				
Tuition		Cost		Total
Tuition*		\$	1,169.00	
Technology Access Fee*		\$	67.00	
Student Activity Fee*		\$	10.00	
OSHA 10 Training		\$	25.00	
TOTAL				\$1,271.00
Supplies				
		Needed By	Cost	Required
Denim Jeans	First day of class	\$	35.00	x
3 Black Short Sleeve Polo Shirts with Pocket	First day of class	\$	60.00	x
Steel Toe Work Boots	First day of class	\$	140.00	x
USB Flash Drive 2 GB	First day of class	\$	12.00	x
Safety Glasses	First day of class	\$	10.00	x
TOTAL				\$257.00
Book & Tool Kit				
		ISBN	Cost	Required
Elementary Blueprint Reading for Machinists, 5th edition		9781401862565	\$ 162.00	x
Machining Fundamentals, 9th Ed.		9781619602090	\$ 116.00	x
Machinist Ready Reference , 10th edition		9780970339850	\$ 43.00	x
Machining Fundamentals Workbook, 9th Ed.		9781619602144	\$ 30.00	x
Machinist Calc Pro 2 Calculator		no isbn	\$ 90.00	x
TCAT Machine Shop Tool Kit Includes the below items		no isbn	\$ 64.00	
	<i>Thread Gauge (Included in Kit)</i>			x
	<i>Machinist Rule (Included in Kit)</i>			x
	<i>Pocket Scribe (Included in Kit)</i>			x
	<i>Center Drill #4 (Included in Kit)</i>			x
	<i>Center Drill #5 (Included in Kit)</i>			x
	<i>2 Tool Blanks (Included in Kit)</i>			x
TOTAL				\$505.00
2nd Trimester				
Tuition		Cost		Total
Tuition*		\$	1,169.00	
Technology Access Fee*		\$	67.00	
Student Activity Fee*		\$	10.00	
TOTAL				\$1,246.00
3rd Trimester				
Tuition		Cost		Total
Tuition*		\$	1,169.00	
Technology Access Fee*		\$	67.00	
Student Activity Fee*		\$	10.00	
TOTAL				\$1,246.00
Supplies				
		Needed By	Cost	Required
Flashdrive	First day of class	\$	10.00	x
3 Ring Binder	First day of class	\$	3.00	x
25 Sheet Protectors	First day of class	\$	5.00	x

All Costs are Estimated and Subject to Change Without Notice Revised: 8/24/2017

*Denotes costs that can be covered by TN Promise and TN Reconnect

TOTAL	\$18.00
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4th Trimester

Tuition	Cost	Total
Tuition*	\$ 1,169.00	
Technology Access Fee*	\$ 67.00	
Student Activity Fee*	\$ 10.00	
TOTAL		\$1,246.00

Miscellaneous Cost	Cost	Required
Graduation Supplies	\$ 40.00	x
TOTAL		\$ 40.00

TOTAL PROGRAM COST	\$5,829.00
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OFFICE USE ONLY

ADMISSIONS REQUIREMENTS

FAFSA I will not be filing financial aid. I will be paying for my education. Students Initials: _____

SPECIAL ADMISSIONS REQUIREMENTS

Cosmetology:

Photo Proof of Age Copy of SS Card RT/LT Handed Manicuring Only
 Educational Transcripts

Dental Assisting, Medical Assisting, and Surgical Technology

HESI scores: Math 70 and Reading 70 | Compass scores: Math 30 and Reading 70

HESI | ACT | Compass Scores: _____ Math _____ Reading _____ (Date: _____)
 CPR Documentation (BLS for Healthcare Providers)
 Educational Transcripts Immunizations

Medical Office Information Technology

Educational Transcripts

Practical Nursing:

HESI required scores: Math 70 and Reading 70 | Compass scores: Math 50 and Reading 80

Notarized Declaration of Citizenship Copy of ID Used to Declare Citizenship
 CPR Documentation (BLS for Healthcare Providers)
 Educational Transcripts Immunizations
 HESI | ACT | Compass Scores: _____ Math _____ Reading _____ (Date: _____)

Truck Driving:

MVR DOT Physical Valid Driver's License
 U.S. Citizenship / Residency

Staff Signature: _____

Date: _____