

Machine Tool Technology

Required Tool List

Safety equipment required by 1st week of class. Tools must be acquired by the 5th week of class. Students may source their tools from a vendor of their choice. Price will range between \$900-\$1500 depending on quality and vendor. Discussion regarding each tool specification and recommendations will occur the first week of class.

Vendor	Contact Person	Email	Phone	Website
MSC Industrial	Carla Ross	rossc@mscdirect.com	(775) 788-7502	http://www.mscdirect.com
Intermountain Machinery	Jay Gill	jgill@ims.supply	(406) 260-1060	https://ims.supply.com
Snap-On	Jeff Wadsworth	jeffery.l.wadsworth@snapon.com	(801) 874-5187	https://www.snapon.com/en
Stellar Industries	Jeff Ouzts	JOuzts@stellarindustrial.com	(406) 896-0066	https://www.stellar.com
Norco Industrial	<u>Sheridan</u> Tony Kassen <u>Gillette</u> Jeremy Ellis	<u>Sheridan</u> tonyk@norco-inc.com <u>Gillette</u> jeremy@norco-inc.com	<u>Sheridan</u> (307) 672-9754 <u>Gillette</u> 307) 682-8250	https://www.norco-inc.com

*Toolbox- personal preference, most of our students prefer one with a tray or drawers.

**Steel rule- rigid or flexible, there are applications for both. 4R Graduations most often used in the shop are 1/64", 1/32", 1/16", and 1/8".

***If you are serious about this occupation, a 0-1" Depth Micrometer is also suggested.

Safety Glasses - Clear ANSI Z87.1 (Minimum) indoor/outdoor & mirrored lenses <i>NOT</i> allowed
Safety Toe Boots - (Minimum) Steel or composite toe, slip resistant, leather preferred
Scientific calculator - (Minimum Texas Instruments TEXTI30XA) OR Machinist Calc Pro
Small Toolbox - Portable with handles NO LARGER than 24" wide x 12" deep x 12" high *
6" Steel Rule - 4R Graduations**
6" Dial Caliper - 0.001" Increments
Mechanical Micrometer - 0-1" Range, Ratchet Thimble, 0.0001" Graduation ***
Dial Test Indicator - 0.0005" Graduation, 0.06" Travel Range
INDICOL Test Indicator Holder
Dial Drop Indicator - 1" Range, 0.001" Graduation with adjustable magnetic base
Mighty Magnetic Base
12" Combination Square Set - (Center, Protractor, and Square Head with Steel Rule, 4R Graduations)
Telescoping Gage Set - 5/16" - 6"
Thread/Screw Pitch Gages - (Standard and Metric)
Feeler Gage Set - Hardened 0.0015-.025"
Center Gage - 60 Degree, 1/32" to 1/14" graduations
Scribe
Center Punches - 60 and 120 Degree
Automatic Prick Punch
Machinist's Double Face Hammer or Ball Peen Hammer
Soft Face Dead Blow Hammer (Optional)
File Set- Round, Half Round, Mill, Slim Taper, Flat Single and Double Cut
Hand Deburring Tool - Swivel Type with Replacement Blades
Allen Wrenches/Hex Key Set- Inch .05" to 3/8" and Metric 1.5-10mm
Torx Key Set- T1 to T25
Screwdriver Set - 6 pieces, Standard {3/16, 1/4, & 5/16} Phillips {#1-#3}
Center Drill Set (5 piece, #1-#5)
HSS Drill Bit Set (1/16"-1/2") 1/64" Increments
25/64" Twist Drill- HSS, Black Oxide OR Coated, 135° Included Angle
HSS 5/16" x 5/16" x 2 1/2" Tool Blank (4 pieces)
4F Square End Mills- HSS Center Cutting: 1/8", 1/4", 5/16", 3/8", 1/2", 5/8", 3/4" (Qty 2 Each)
2F Square End Mills- HSS Center Cutting: 1/8", 1/4", 5/16", 3/8", 1/2", 5/8", 3/4" (Qty 2 Each)
Flashlight (NOT BLINDING)
Countersink- HSS, 3/8" and 3/4"Diamter, 90 Degree Included Angle, 2-6 Flutes
Mechanical Edge Finder-Single End