

Arizona Department of Education

Career and Technical Education

Recommended Equipment List

Program: Precision Machining

CIP#: 48.0500.30

NOTE: The following items and descriptions are the recommended equipment guidelines for each CTE **Precision Machining** program. Please note that this list of recommended items does not necessarily need to be supported financially by Federal Perkins or State Priority funding sources. In many cases, local school district funds are used to purchase items on a regular basis (i.e. furniture, consumables, etc.) Further, please understand that this is not an exhaustive list. Local program and business needs may necessitate the purchase of additional equipment and software resources, as may the rapidly-changing nature of the industry-specific technologies used in the program.

Please contact ADE-CTE Program Specialist Tracy Rexroat (tracy.rexroat@azed.gov) if you have questions regarding the appropriateness of any item you are considering for addition to your CTE **Precision Machining** program.

Recommended Equipment and Software

Item	Notes
<u>Hand Tools for Bench Work:</u>	
Air Compressor (stationary or portable)	
C-clamps, parallel-closing clamps,	
Clamps	
Diagonal Cutter (optional)	
Drills, portable power High Speed Drill Set	
Bench vise and arbor press. four-inch	
Edge finder,	
Files and Rasps	
Flat	
Round	
Half Round with Levels	
Levels	
Hammers; ball peen, and soft-faced hammers	
Hacksaw	
Magnifying glass	
Nut Driver Set (optional)	
Pliers	
Slip-joint	
Long nose	
Diagonal	
Pop Rivet tool	
(optional) Pump Oiling Can	
Punches; prick punch,	
Reamer,	
Sanders, orbital, disk (optional)	
Saw, Band Vertical	
<u>Hand Tools for Bench Work (continued)</u>	
Saw, Band, Metal Cutting, Horizontal, Saw,	
10" table with tilting arbor	
Screw Pitch Gauges Inch/Metric	
Screwdrivers	
Flat head	
Phillips	
Jewelers	
Scriber	
Shop Vacuum	
Sliding T bevel	

Snips	
Socket Set (preferred 3/8" set)	
Squares, (e.g., tri, flat steel and combination)	
Tap wrenches, tap and die set, standard/metric	
Wrenches, combination, standard and metric sets, Hex Key Assortment of boring bit set up to one inch dia.	
Drill bits (3/8 drive)	
Oily rags waste can	