

Arizona Department of Education

Career and Technical Education

Recommended Equipment List

Program: Aircraft Mechanics
CIP#: 47.0600.50

NOTE: The following items and descriptions are the recommended equipment guidelines for each CTE Aircraft Mechanics 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 Jason Wojcik (Jason.Wojcik@azed.gov), if you have questions regarding the appropriateness of any item you are considering for addition to your CTE Aircraft Mechanics program.

Recommended Equipment and Software

Item	Items
Industry Minimum Tool Requirement (average):	
General Mechanics Tools	
Standard screwdriver set in common lengths and sizes	Safety wire twisters
Combination wrench set in sizes from ¼ to 1 inch	Two dead blow hammers (large and small)
3/8-inch drive ratchet set with extension	Two ball peen hammers (large and small)
3/8-inch drive deep 12 point socket set in common sizes	Set of feeler gauges
1/2-inch drive ratchet set with extensions in common sizes	Pair of mechanical fingers
1/2-inch drive deep 12 point socket set in common sizes	Adjustable mirror
3/8-inch drive breaker bar	Long handler magnet
1/2-inch drive breaker bar	10X magnifying glass
3/8-inch drive speed handle	Industrial handheld and head band type flashlights
1/2-inch drive speed handle	Hack saw
3/8-inch drive adjustable air-driven impact	Utility knife
Adjustable jaw wrenches (large and small)	Mechanics tool chest
Set of Allen wrenches	Roll-away
Set of common pliers	
Set of vice grips (large and small)	
Set of Channel locks (large and small)	
Avionics and Electrical Tools:	
Small toolbox or canvas tool bag	Digital volt ohm meter with leads
Side cut pliers	10X magnifying glass
Needle nose pliers	Utility knife
Cannon plug pliers	Screwdrivers and nut driver set
Male and female pin pushers	Soldering iron 40W maximum
Industrial handheld and head band type flashlights	Small ball peen hammer
Wire strippers	Safety wire twisters
Crimpers	
Structural Repair Tools:	
Dead blow hammers	Set of radius gauges
Rawhide mallet	Set of feeler gauges
Ball peen hammer	Pin punches (in common rivet sizes)
1/4-inch chuck pistol grip air drill (2,600 rpm, 33 hp,	Automatic center punch
Drill bit set (high speed 135-degree with split point and in common rivet	1/2-inch chisel
4X pistol grip rivet gun with beehive retaining spring	Straight snips
Adjustable pistol grip air screwdriver	Files (flat, half round and round)
Universal rivet set (straight and offset in common rivet sizes)	File handle
Flush rivet set (one large for skins and one smaller)	Left and right snips
3 bucking bars (1.5- to 3-pound bars, include a stringer bar, heel and toe,	Hack saw
Micro stop countersink with piloted cutters (cutters in common rivet sizes	10-foot steel measuring tape
Cleco pliers and clecos (two dozen each in silver, black, copper, gold, and	Needle nose vice grips
Hole finders (in common rivet sizes)	Allen wrenches
Combination square set	Screw extractor
Inside and outside calipers	Toolbox with top tray
Scribe	
8-inch shockproof dial calipers	