



Aviation Maintenance Minimum Tool List

(* indicates tools which need to be on hand the first day of class)

Personal Protective Equipment

- *Eye protection
 - Must meet ANSI Z87. Corrective lenses which do not meet ANSI Z87 *must* be covered by safety glasses which meet the standard test
- *Hearing protection
 - Ear muff style is recommended
- Closed-toe leather shoes/boots
- Leather gloves
- Respiratory protection
 - Dust mask *and* activated charcoal type respirator with airtight storage enclosure
- Welding gloves (optional)
 - All leather, gauntlet type

Measuring Tools

- *Machinists' scale
 - 6 inch, graduated in 1/100 inch and 1/64 inch. Flexible.
- *Multimeter
 - Digital, capacitance check, diode check *required*
- Outside micrometer
 - Analog, 0-1 inch range, graduated to .0001 inch
- Vernier caliper
 - Dial indicating, 0-6 inch range, graduated to .001 inch
- Combination set
 - Includes 12 inch machinists square, protractor head and centering head
- Steel tape rule
 - 12 foot minimum

- Feeler gauge set
 - .001 inch - .040 inch

Inspection Tools

- *10X magnifying glass
- *Flashlight
- *Inspection mirror
 - Approximately 2 inch, round or rectangular

Pliers

- *Diagonal cutting pliers 6 inch
- *Needle nose pliers 6 inch
- Channel lock pliers 10 inch
- Duck bill pliers
- Needle nose pliers 11 inch
- Safety wire pliers 6 or 9 inch
- Vice grip locking pliers 6 inch

12 Point Combination Wrenches

- *12 point combination wrench set
 - size ¼ inch to 1 inch
- 12 point combination wrench set of small ignition wrenches (Craftsman)

Screwdrivers

- *#1 and #2 Phillips-head screwdrivers
 - #1 and #2, short, medium and long
- *Flat-head screwdrivers
 - Short, medium and long

Metal Working Tools

- *Center Punch
- *Hack Saw
 - 12 inch with 32 teeth per inch
- *Pin punch set 1/16 inch to 3/16 inch
- Brass pin punch ¼ inch to ½ inch
- Cape chisel
- Cold chisel
- File
 - Half round, round, and flat. All files 8 inch.
- File card
- Scribe
 - straight and 90-degree bend
- Wood or plastic file handles

Socket Sets

- *1/4 inch drive shallow and deep size socket sets
 - ¼ inch to 9/16 inch twelve point
- *1/4 inch drive extension 3 inch length
- *3/8 inch drive shallow sockets

- *3/8 inch drive extension 3 inch
- 1/4 inch drive extension 6 inch length
- 1/4 inch drive ratchet handle
- 1/4 inch and 3/8 inch drive universal adapters
- 3/8 inch female to 1/4 inch male adapter
- 3/8 inch to 1 inch Twelve Point
- 3/8 inch drive ratchet handle
- 3/8 inch drive speed handle
- 3/8 inch drive extension 6 inch

Other Tools

- *Colored pencil set
- *Multi-tool
 - Gerber/Leatherman, etc.
- *Scientific calculator
- *Soft face hammer
- *Tool box
 - Lockers need to be 22 inch deep and 12 inch wide
 - You can buy a bigger box/ roll-away, if you choose to keep it on the hangar floor
- Aircraft spark plug socket
 - 3/8 inch drive six-point 7/8 inch. This is a specific socket. Non-application specific sockets could damage spark plugs or engines.
- Ball peen hammer
 - 12 ounce or less
- Dead blow hammer
- Hex key set
 - .050 inch-3/16 inch
- Pencil compass
- Plastic protractor
- Putty knife
 - 1 inch wide
- Tire valve core tool
- X-Acto type knife