Aircraft Technology

REQUIRED HAND TOOLS

The program requires each student to acquire the following list of tools. Major tool distributors offer substantial discounts on their tools while the student is enrolled in the program. Tools may be new or used but must be in safe and usable condition. A graded tool inventory will be conducted the first week in October.

Welding (required 2nd semester)
- Fire/flame resistant shirt
- Gauntlet style welding gloves
- OSHA approved safety glasses
- Welding cap
- Diagonal cutting welding pliers
- Files, 10" flat smooth, 10" flat bastard, 12" round bastard
- File card or wire brush

General Tools (required NLT the first week of October)
Carts/Boxes
- Tool cart, with castors, 1 to 3 drawers (for use during program)
Measurement
- Combination square, 3-piece, with protractor
- Tape measure, 12-foot
- Multi-meter
- Pocket ruler, steel, 6"
- Feeler gauges, 0.0015" to 0.0400"
- Calipers, 6"
Drills
- Cordless drill motor
- Number drill set, 0-60, HSS
- Fractional drill set, 1/16" to 3/8", HSS
Pliers
- Slip joint, 10 inch
- Slip joint, 6 inch
- Diagonal cutting, 8 inch
- Duckbill, 8 inch
- Wire crimping, AMP type
- Needle nose, 6-8 inch
Inspection
- Magnifying glass, 10 power
- Mirror, 2", retractable
- Flashlight

General Tools (continued)
Wrenches, combination, 12 point, 10 piece 5/16" through 7/8"
Socket set 1/4" drive, 12 point, standard
- 1/8" through 1/2"
- Universal joint adapter
- Ratchet
- Extensions, 2" and 6"
Socket set 3/8" drive, 12 point, standard
- 3/8" through 17/8"
- Universal joint adapter
- Ratchet
- Extensions, 3" and 8"
Screwdrivers
Standard (flat), #1, #2, and #3 tips
Phillips, #1, #2, and #3 tips
Offset, Phillips and standard

Cutting
Hack saw with 32 TPI metal blades
Aviation snips, straight, left, and right

Hammers
Plastic tip, approximately 1 pound
Ball peen, approximately 12 ounces

Punches & Chisels
Cold chisel set
Pin punch set
Center punch (may be automatic)

Miscellaneous
Valve core remover
Hex key set, SAE

Safety
OSHA approved safety glasses (Required first day of class)
Mechanic's gloves

**Drawing and Drafting (Required at beginning of first semester)**
Compass kit
Eraser
Pencils, 2H, 4H, and HB
Architectural scale
Drafting tape
Erasing template