

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 1 7/8"
 - 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