

# SKAGIT VALLEY COLLEGE AUTOMOTIVE TECHNOLOGY

## STUDENT HAND TOOL LIST

The student hand tool list covers all areas and indicates the tools a student will need to be employed and successful. A majority of employers indicate that potential employees need a basic hand tool set to be employed as an entry-level automobile technician:

- Safety glasses
- Blowgun – rubber tip (OSHA approved)
- Battery post cleaner
- Brake spoon
- Brake spring tool (return)
- Brake spring tool (hold down)
- Gasket/carbon scraper
- Hacksaw
- Files (with handle):
  - Flat 10" coarse, 6" fine
  - Round 10" coarse, 6" fine
- Spark plug gap gauge
- Wire brushes: Large and small
- 12' tape measure
- Continuity test light
- Remote start switch
- Allen wrench sets: 1/16" – 3/8" and 2 mm – 10 mm
- Feeler gauges: .04 - 1.0 mm and .002 - .035
- Creeper
- Magnetic pick-up tool
- Squirt oilcan
- Tire pressure gauge
- Compression tester
- Digital volt ohm meter (DVOM), 10 amp minimum
- Soldering gun
- Vacuum pump
- Vacuum gauge
- Toolbox: Roll away (15,000 cubic inches)
- Wrenches:
  - Combination 3/8" – 1" and 10 mm – 22 mm
  - Ignition 1/8" – 3/8"
  - Flair/Line: 4 pc. 3/8" – 7/8" and 10 mm – 19 mm
  - Adjustable/Crescent: 10" and 6"
- Socket Sets:
  - 3/8" drive: 6 PT Short 3/8" – 1"
  - 3/8" drive: 6 PT Deep 3/8" – 1"
  - 3/8" drive: 6 PT Short 10 mm – 22 mm
  - 3/8" drive: 6 PT Deep 10 mm – 22 mm
  - Extensions 3/8 Drive 1", 3", and 6"
  - Spark plug sockets: 5/8" and 13/16"
  - 3/8" drive ratchet handle
  - 3/8" drive torx (male) T-10 – T-60
  - 3/8" drive torx inverted E6 – E16
  - 3/8" drive universal flex
  - 3/8" drive adapter 3/8" to 1/2"
  - 1/2" drive 6 PT short 1/2" – 1 1/8"
  - 1/2" drive 6 PT deep 1/2" – 1 1/8"
  - 1/2" drive 6 PT short 10 mm – 22 mm

- 1/2" drive 6 PT deep 10 mm – 22 mm
- 1/2" drive ratchet handle
- 1/2" drive breaker bar
- 1/2" drive extensions 3" and 6 "
- 1/2" drive torque wrench (click-type) 25-150 ft lbs.
- 1/2" drive universal flex
- 1/2" drive adapter 1/2" to 3/8"

Pliers:

- All purpose
- Wire strip/crimp
- Needle nose
- Side cutter
- Locking (vise grip)
- Slip joint (channel locks)
- Hose clamp
- Battery clamp
- Snap ring

Screwdrivers:

- Common (slot):
  - Stubby
  - Pocket
  - 6", 8", 10", 12" and offset
  - 12" - .037

Phillips:

- Stubby
- Pocket
- 6" #1, 2, and offset
- 12" #1

Hammers:

- Ball peen 16 oz.
- Dead blow 32 oz.
- Sledge 3 lb.

Punches/Chisel:

5/8" cold chisel

4" center punch

3/8" taper punch

1/4" and 1/8" pin punch

Pry bar with handle 24"

Fender cover

Coolant hydrometer

Serpentine belt tool

Quick disconnect couplers 1/4", 5/16", 3/8", and 1/2"

Nut driver set: 3/16" – 1/2" and 5 mm – 11 mm

Sliding dial caliper, 6"

Pocket flashlight

Pick tool set

Extension – adjustable mirror

6" "C" clamp

Oil Filter wrench

Drop Light