

AUTOMOTIVE TECHNOLOGY - FORD - GENERAL MOTORS

TOOL/SUPPLY LIST

1st Semester Required

First Day Of Second Week

- ☐ Terminal Removal Tool – (for Computer Control Terminal)
- ☐ Ear protection
- ☐ Pen/Mini-Mag light w/batteries
- ☐ Air chuck/ Tire pressure inflator
- ☐ Tire psi gauge
- ☐ Valve core tool
- ☐ Rubber tip air nozzle
- ☐ Antifreeze tester
- ☐ Pick set (4 piece)
- ☐ Magnetic pick up tool (telescoping)
- ☐ Inspection mirror
- ☐ Pocket Screwdriver
- ☐ Tool bag that accommodates items above

- ☐ Fluke 87 or 88 Multimeter
- ☐ (ASEP Fluke 87 required)
- ☐ *Punch and Thread Kit (alum. Block) \$9.90
- ☐ *Jumper wire set
- ☐ *Safety glasses (min. Z87 rated)
- ☐ Program Uniform Shirts
- ☐ • *AUTO - 3 minimum
- ☐ • Dealer programs (Ford, GM) will have apparel provided by the Dealer

WELDING EQUIPMENT

- ☐ (needed either 1st or 2nd semester depending on program)
- ☐ Burn Jacket or Welding Leathers

- ☐ Safety Glasses with side shields
- ☐ Gauntlet style welding gloves
- ☐ Auto darkening welding helmet
- ☐ ("Grind Mode", #5 shade for oxy acetylene, and a #10 shade)
- ☐ MIG welding pliers (must be able to cut .035" welding wire)
- ☐ Ear Plugs (3 Pair)
- ☐ Leather Boots
- ☐ Denim pants (No holes or tears in them)
- ☐ Welding Beanie (optional but beneficial)
- ☐ *May be purchased at the SCC Parts or Campus store
- ☐

2nd Semester Required

First Day Of Second Semester

Tool Storage

- ☐ Roll-Away - 56" max length

1/4" Drive

- ☐ Socket Set 3/16"-9/16" shallow 6 pt.
- ☐ Socket Set 3/16"-9/16" deep 6 pt.
- ☐ Socket Set 5-14 mm shallow 6 pt.
- ☐ Socket Set 5-14 mm deep 6 pt.
- ☐ Extensions (3) 2", 4", 6" or equiv
- ☐ Ratchet
- ☐ Drive handle (screwdriver type)
- ☐ Universal joint

3/8" Drive

- ☐ Socket Set 3/8"-3/4" shallow 6 pt.
- ☐ Socket Set 3/8"-3/4" deep 6 pt.
- ☐ Socket Set 8-19 mm shallow 6 pt.
- ☐ Socket Set 8-19 mm deep 6 pt.
- ☐ Socket Set Torx T10-T60 (1/4" and/or 3/8" drive)
- ☐ Socket Set Allen/Hex 1/8"-3/8"
- ☐ Socket Set Allen/Hex 4-10 mm
- ☐ Spark plug sockets 5/8" and 13/16"
- ☐ Extensions (5) 1", 3", 6", 12", 36"
- ☐ Ratchet, standard
- ☐ Ratchet, long flex head
- ☐ Speed handle
- ☐ Universal joint

1/2" Drive

- ☐ Socket Set 10-24 mm shallow
- ☐ Socket Set 10-24 mm deep Impact
- ☐ Sockets, 30, 32, 34 & 36 mm deep impact
- ☐ Socket Set, Lug nut
- ☐ Extensions (3) 3", 6", 12" or equiv.
- ☐ Ratchet
- ☐ Breaker bar, 24" min
- ☐ 1/2" Impact universal with lock button
- ☐ 1/2" Impact wrench

Screwdrivers

- ☐ Standard (5) 1/8", 3/16", 1/4", 5/16", 3/8" including stubby
- ☐ Phillips (4) #1, #2, #3 and #2 stubby
- ☐ Tamper Proof Torx Screwdrivers (T10-T30)

Pliers

- ☐ 6" slip joint combination
- ☐ 7" Diagonal cut
- ☐ 6" Needle nose
- ☐ 10"(min) Adjustable Joint
- ☐ Vise-Grip (3) 5" curved, 10" curved, 6" long nose
- ☐ Fixed tip Snap ring convertible 6" & 8" straight tip .038" .045" & .070"
- ☐ Lock ring pliers

Punches/Chisels/Files/Saw

- ☐ Punch & Chisel Set (Minimum 12 piece – must include center punch)
- ☐ Brass drift 8" min. (12" recommended)
- ☐ Files (3) 10" flat, 8" round, 6" Tri
- ☐ File card
- ☐ File handle
- ☐ Half round/cape chisel

Measuring Instruments

- ☐ Feeler gauges (2) Straight and angled (.0015-.025 w/metric equiv)
- ☐ 6" steel ruler w/ std. and metric display
- ☐ Thread pitch gauges, (2) std. & metric
- ☐ Tape measure, 12' min.
- ☐ Caliper, 0-6"
- ☐ Torque wrench, 3/8" drive 15-100 ft/lb or equiv.
- ☐ Torque wrench, 1/2" drive 40-250 ft/lb or equiv.
- ☐ Digital Torque wrenches with angle measurement is recommended.

Wrenches

- ☐ 1/4"-1 1/4" standard combination 12 pt.
- ☐ 6-24 mm standard combination 12 pt.
- ☐ Adjustable Wrench, 12"
- ☐ Flare Wrench Set 3/8" -11/16"
- ☐ Flare Wrench Set 9-18 mm

Hammer

- ☐ Ball Peen, 16 oz.
- ☐ Ball Peen, 32 oz.
- ☐ Dead Blow, 24-28 oz.

Brakes Tools

- ☐ Brake adjusting spoon
- ☐ Brake Retaining Spring Tools (2)
large and small
- ☐ Brake Spring Tool

Miscellaneous

- ☐ Spark plug gapper –wire type – .025-.045 and .040-.080
- ☐ Spark Tester
- ☐ A/C Thermometer
- ☐ Lip seal tool
- ☐ 12" Hacksaw w/ blades
- ☐ Allen Wrenches Metric set 4-12 mm
- ☐ Stethoscope
- ☐ Pry bar, 24" min (Set with more than one length is recommended)
- ☐ 16" rolling head bar
- ☐ Fender covers (1pair)
- ☐ Wire brush, 10" min
- ☐ Adapters (4) 1/4-3/8, 3/8-1/4, 3/8-1/2, 1/2-3/8
- ☐ Gasket scraper
- ☐ Oil filter Pliers (slip joint)
- ☐ Oil filter band wrenches (2)

RECOMMENDED

- ☐ Socket Set 3/8" drive 10mm-19mm flex impact
- ☐ Socket Set 3/8" drive Inverted Torx E6-E16
- ☐ Socket Set 3/8" drive 10-19mm deep Impact
- ☐ Socket Set 1/2" drive 3/8-1 1/4 shallow
- ☐ Socket Set 1/2" drive 7/16-1 1/4 deep Impact
- ☐ Socket Set 1/2" drive 10-24mm deep chrome
- ☐ Automotive Terminal Test lead kit
- ☐ Metric ratcheting wrenches
- ☐ 8/10mm brake wrench - for bleeder screws
- ☐ 6-19mm combination stubby wrench set
- ☐ Assorted trim panel removers
- ☐ 3/8" Air or cordless Impact
- ☐ 3/8" Air or cordless ratchet
- ☐ Hose Clamp Pliers
- ☐ Spark plug boot pliers
- ☐ Needle nose pliers set long (3)
- ☐ Large dead-blow hammer, 36 oz or larger
- ☐ Brass Hammer
- ☐ Hand vacuum pump with gauge

This list includes the basic tools a student will be required to have to successfully complete the program. The student should discuss with their program advisor the timeline for purchasing specific tools and suggested optional tools. The College does not recommend, nor endorse, any specific brand of tools. The student should give careful consideration when selecting tools they will use in their career. (10/1/2025)