

AUTOMOTIVE TECHNOLOGY PROGRAM TOOL/EQUIPMENT LIST



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The following is a list of hand tools the Automotive Department feels will be necessary to enter the Automotive Technology Program. The Department recommends that quality professional tools be purchased and that all tools be marked with some type of identification. Security of these tools will be the responsibility of each individual. The Department or College will assume no responsibility in this area. The College does receive a substantial discount from various vendors for all students that are attending.

The approximate cost ranges from \$3000-\$5000 depending on the source. Check with the Automotive Technology Department if you have any questions.

- 1/4" DR. SOCKET SET -
 - 3/16" TO 5/8" STANDARD & DEEP
 - 4MM TO 14MM STANDARD & DEEP
 - EXTENSION 1 1/2", 3", 4", 6"
 - 1/4" Universal Socket
- 3/8" DR. SOCKET SET -
 - 5/16 TO 3/4 STANDARD (6 POINT)
 - 3/8 TO 3/4 DEEP (6 POINT)
 - 9MM TO 19MM STANDARD
 - 9MM TO 19MM DEEP
 - *FLEXIBLE SOCKET SET 3/8"-3/4"
 - *FLEXIBLE SOCKET SET 10MM-19MM
(SIX POINT PREFERRED BY 12 POINT IS ACCEPTABLE.)
 - 3/8 DR. TO 1/2 DR. ADAPTOR
 - 3/8 DR. UNIVERSAL JOINT SOCKET
 - *FLEXHEAD RATCHET
 - RATCHET
 - *SPEED HANDLE
 - EXTENSION 3", 5", 10", *24"
 - SPARK PLUG SOCKETS 5/8 & 3/16
- 1/2" DR. SOCKET SET -
 - 3/8 DR. BREAKER BAR
 - 7/16 TO 1 1/8 STANDARD
 - 7/16 TO 1 1/8 DEEP
 - 10MM TO 25MM STANDARD
 - 10 MM TO 25MM DEEP
 - 1/2 DR. TO 3/8 DR. ADAPTOR
 - 1/2 DR. TO 3/4 DR. ADAPTOR
 - 1/2 DR. UNIVERSAL JOINT
 - *1/2 DRIVE IMPACT UNIVERSAL SOCKET
 - RATCHET
 - EXTENSION 3", 6", 12"
 - 1/2 DR. BREAKER BAR

COMBINATION WRENCH SET - ¼ TO 1 ¼"
5MM TO 24MM
*CROWS FOOT WRENCH SET- METRIC AND STANDARD
*FLARE NUT WRENCHES- 3/8"-3/4" AND 10MM-17MM

HEX WRENCH SOCKET SET - STANDARD - .50 TO 3/8"
METRIC – 2MM TO 8MM, 10MM, 12MM

REGULAR PLIERS
NEEDLE NOSE PLIERS
DIAGONAL CUTTING PLIERS
SLIP JOINT PLIERS

RETAINING RING PLIERS (Fixed set with various sizes)
VISE-GRIP PLIERS in a couple of different sizes and styles
HOSE CLAMP PLIERS

WIRE STRIPPERS
PICK SET

SCREWDRIVERS- (COMMON) STUBBY, 4", 6", 8", 10"
(PHILLIPS) STUBBY #2
6" #1,2
10" #2
12" #2

PUNCHES - 1/8", 3/16", ¼", 5/16", 3/8"
CENTER PUNCH - 3/8"
COLD CHISELS - 5/16", 3/8", 5/8", ¾", 7/8"
STARTER PUNCHES - 3/16", ¼", 5/16"
CAPE CHISELS - ¼", 5/16", 3/8"

CHISEL HOLDER

BALL PEEN HAMMER- 16OZ.
BALL PEEN HAMMER- 32OZ.
PLASTIC TIP HAMMER- 16OZ.

DEAD BLOW/RUBBER HAMMER

HACKSAW

SCRAPER- 1" CARBON, 1" GASKET

INSPECTION MIRROR

MAGNETIC PICKUP TOOL

CLAW PICKUP TOOL

SAFETY GLASSES (MEETING OSHA REQUIREMENTS)

EAR PROTECTION

LED SHOP LIGHT OR FLASH LIGHT

¼" AND 3/8" DR. TORX DRIVER SET (CAN BE TAMPER PROOF SET)

(SHOULD INCLUDE T-8, T-10, T-15, T-20, T-25, T-27, T-30, T-40, T-50, T-55, T-60)

*¼" AND 3/8" DR. INVERTED TORX DRIVER SET

(SHOULD INCLUDE E-4, E-5, E-6, E-7, E-8, E-10, E-12, E-14, E-16, E-18)

ADJUSTABLE WRENCH - 12"
PRYBAR - 16"
PRYBAR - 24"
FEELER GAUGES - .002 TO .040 TO .006MM TO .070MM
SPARK PLUG FEELER GAUGE (GAP TOOL)

BATTERY SERVICE KIT:

(SHOULD INCLUDE BATTERY NUT PLIERS, BATTERY TERMINAL
PULLER, BATTERY POST CLEANER)

WIRE BRUSH

½" DR. STANDARD SHALLOW AND DEEP IMPACT SOCKET SET

½" DR. METRIC SHALLOW AND DEEP IMPACT SOCKET SET

BLOW GUN (OSHA APPROVED)

3/8" DRIVE TORQUE WRENCH (10-250 LB. IN) **GOOD QUALITY FOR ACCURACY**

3/8" DRIVE TORQUE WRENCH (5- 75 LB. FT.) **GOOD QUALITY FOR ACCURACY**

½" DRIVE TORQUE WRENCH (50-250 LB. FT.) **GOOD QUALITY FOR ACCURACY**

* ¼" DRIVE AIR OR BATTERY RATCHET (30 FT LBS INGERSOLL RAND 1105MAX-D2
OR EQUIVALENT)

*3/8" DRIVE AIR OR BATTERY RATCHET (65 FT LBS INGERSOLL RAND 1207MAX-D3
OR EQUIVALENT)

½" DRIVE AIR OR BATTERY IMPACT (INGERSOLL RAND 231 SERIES OR
EQUIVALENT)

TUBING CUTTER (LARGE AND MINI)

TUBING FLARING COMBINATION SET WITH LINE BENDER (ISO AND BUBBLE)

FILES 10" COARSE, 6" FINE, HALF ROUND 12", ROUND 12"

DRILL INDEX UP TO MINIMUM 1/64 TO ½"

VALVE TIRE CORE REMOVER

12' TAPE MEASURE- STANDARD AND METRIC

TIRE AIR CHUCK

TIRE PRESSURE GAUGE

TIRE TREAD DEPTH GAUGE

MAGNETIC TRAY

TYPE A AIR TOOL FITTING FOR EVERY AIR TOOL ORDERED

CAT III DIGITAL MULTIMETER WITH CAT III LEADS (FLUKE 87, PDI DM-930, OR
EQUIVALENT)

TOOL BOX ROLL-A-WAY CHEST (NO LARGER THAN 52")

(WITH CAPACITY TO SUPPORT ALL TOOLS AND CAN BE EASILY
MOVED TO DIFFERENT LOCATIONS.)

TOOL ORGANIZERS

UNIFORMS- ORDERED THROUGH CUSHMAN'S EMBROIDERY (LS524-SHORT SLEEVE
OR LL524-LONG SLEEVE WITH NMCC AUTOMOTIVE TECHNOLOGY LOGO ON LEFT
AND NAME ON RIGHT. MINIMUM TWO SHIRTS AND TWO PAIRS BLUE DICKIES
PANTS TO MATCH SHIRTS.)

ITEMS MARKED WITH * ARE RECOMMENDED BUT NOT REQUIRED

3/2019