

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 Tech 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 Tech 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"
- 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 - 1/4 TO 1 1/4"

	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	
WISE-GRIP PLIERS	
HOSE CLAMP PLIERS	
WIRE STRIPPERS	
SCREWDRIVERS-	(COMMON) STUBBY, 4", 6", 8", 10"
	(PHILLIPS) STUBBY #2
	6" #1,2
	10" #2
	12" #2
PUNCHES -	1/8", 3/16", 1/4", 5/16", 3/8"
CENTER PUNCH -	3/8"
COLD CHISELS -	5/16", 3/8", 5/8", 3/4", 7/8"
STARTER PUNCHES -	3/16", 1/4", 5/16"
CAPE CHISELS -	1/4", 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	
FUSE PULLER	
1/4" 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)
*1/4" 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 RATCHET (30 FT LBS INGERSOLL RAND 1105MAX-D2 OR EQUIVALENT)
 *3/8" DRIVE AIR RATCHET (65 FT LBS INGERSOLL RAND 1207MAX-D3 OR EQUIVALENT)
 ½" DRIVE AIR IMPACT (INGERSOLL RAND 231 SERIES OR EQUIVALENT)
 TUBING CUTTER (LARGE AND MINI)
 TUBING FLARING 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 PRESSURE GAUGE
 TIRE TREAD DEPTH GAUGE
 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)
 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