

VINCENNES UNIVERSITY AUTOMOTIVE TECHNOLOGY SUPPLIES AND EQUIPMENT REQUIREMENTS Updated 5-29-08

Students entering the **Automotive Technology Program** at VU are required to obtain the tools and supplies listed below. Each student will need the following items to successfully complete the required tasks and training exercises. Vincennes University Liability Insurance **DOES NOT** cover tools/supplies that are the property of the individual student. Students are encouraged to insure their tools through their own insurance provider.

AMOUNT NEEDED	DESCRIPTION
4 (NOT INCLUDED WITH TOOL KIT)	Black work pants "Dickies" type (no bluejeans)
1	pair of leather work gloves with cuffs
1	tire pressure gauge
1	wire stripping/crimping/ and cutting pliers
1	tape measure
1	shirt pocket style screwdriver
1 (NOT INCLUDED WITH TOOL KIT)	lock & keys for locker and tool box
1	small metal or plastic box or tray to use for storing small parts, nuts, bolts, etc.
1	fender cover (plastic with foam back or suitable substitute)
1	roll-away tool chest (upper and lower)
1	pair of safety glasses
1	safety air blow gun with type "C" coupler
1	tire inflation chuck with type "C" coupler
1	1/2" drive set to include the following: <ul style="list-style-type: none"> *sockets: <ul style="list-style-type: none"> -1/2"-1 1/4" chrome -1/2" -3/4" deep chrome -10-24mm shallow chrome -10-24 and 30,32,36mm (six-point deep impact sockets) *ratchet *breaker bar *three various length extensions *1/2"-3/8" reducer (adapter) *universal joints (both impact and standard type) *click-type torque wrench

1	<p>3/8" drive set to include the following: 1 standard and one flex head ratchet *sockets: 5/16"-7/8" shallow set 5/16"-7/8" deep 8-19mm shallow set 10-19mm deep set 5/8"spark plug socket 13/16" spark plug socket *3 various length extensions *universal joints (both impact and standard type) • 3/8"-1/4" reducer (adapter) • 3/8"-1/2" adapter inch pounds torque wrench (3/8" drive)</p>
1	<p>1/4" drive set to include the following: *sockets: 3/16"-1/2" shallow & deep sets 5-13mm shallow & deep sets *8,10,& 13mm flex sockets *3 extensions (various lengths) *screwdriver handle/ socket holder *ratchets (1 std & 1 flex head) *universal joint</p>
1	<p>wrench sets to include the following: *combination wrenches(std length) 1/4"-1 1/4" standard 8mm-21mm metric *flare-nut wrenches (line-wrenches): 3/8"-3/4" standard 10mm-18mm metric</p>
1	<p>screwdriver assortment: *standard (minimum of 3 sizes) *phillips (minimum of 3 sizes)</p>
1	12" adjustable wrench
1	<p>pliers set to include the following: *standard slip joint pliers *arc joint pliers (channel lock for slang) (large pair) *needle nose pliers *diagonal cutting pliers *mechanic's brake spring pliers (professional quality a must) *lock-ring pliers kit (internal and external)</p>
1	ball-peen hammer (1 lb)
1	ball-peen hammer (2 lb)
1	plastic hammer (mallet)

1	chisel and punch set to include the following (about 11 pieces): *chisel and punch assortment (should include a brass punch(1/2" min dia.) *chisel/ punch holding tool
1	hex key set (slang term "Allen Wrenches")to include the following: *both standard and metric (no larger than 3/8"will be necessary) *socket style preferable if possible
1	wire-type spark plug gapping tool (should range from .035"-.080")
1	feeler gauge set to include the following: *.0015"-.030" * some brass gauges (non-magnetic)would be beneficial
1	fluorescent work light with cord
1	110volt heavy duty extension cord (must have all 3 terminals on end)
1	gasket scraper
1	magnetic pick-up tool
1	flexible mechanical pick-up tool
1	flexible inspection mirror
1	torx sockets (should include T-8 through T-60)
1	Fluke 115 digital multi-meter
1	Brake shoe retaining spring removal tool
1	seal puller tool
1	1/2" Drive pneumatic impact wrench with type "C" coupler
1	HEI Ignition Spark Tester
1	straight jaw vise grip brand pliers
1	Curved jaw vise grip brand pliers
1	Soldering gun
1	Battery operated flash light
1	External torx socket set E6-E16
1	Stylus type LED pocket pen light

NOTE: IT IS INEVITABLE THAT SLIGHT VARIATIONS FROM THIS LIST WILL OCCUR. DO NOT BE ALARMED IF YOUR SET DIFFERS SLIGHTLY FROM THIS LIST.

VINCENNES UNIVERSITY DOES NOT PROFIT FROM THE SALE OF TOOL KITS OFFERED TO STUDENTS BY THE VARIOUS TOOL COMPANIES.

PLEASE NOTE THAT THE TOOL KITS OFFERED TO STUDENTS ATTENDING THE AUTOMOTIVE PROGRAM AT VINCENNES UNIVERSITY MAY BE PURCHASED AT A GREATLY REDUCED RATE.

THE FOLLOWING ITEMS ARE NOT REQUIRED BUT CONSIDERED TO BE VERY BENEFICIAL:

electric drill and drill bit set

standard 12volt test light

metal file assortment

pry bar set

standard and metric tap and die set

automotive stethoscope

black Sharpie style markers

white or silver paint pens

All tools should be engraved with some identifying mark. Misplaced tools will be placed in a "lost and found" and every attempt will be made to return the tools to their owner.