



Automotive Technology Tool List

Beloit Campus

2021-2021

Following are the required tools for the **Automotive Technology** program. These tools can be purchased from the vendor of your choice. All tools are to be of professional quality. Tools will be inspected prior to being used in the department. The department reserves the right to refuse the use of worn or defective tools or tools which do not conform to the specifications of this list and the department chairperson.

Required Tools and Equipment

Qty	Size	Item
<u>Sockets (All sockets excluding 1/2" drive must be 6 point Chrome!)</u>		
<u>Drive:</u>		
1 of each	1/4"	Metric Shallow 4mm-15mm
1 of each		Metric Deep 4mm-15mm
1 of each		Standard Shallow 3/16"-9/16"
1 of each		Standard Deep 3/16"-9/16"
1		Ratchet Short Handle
1		Ratchet Long Handle Wobble Head
1		Extensions Kit
1		Driver Handle
1 of each	3/8"	Metric Shallow 8mm-19mm
1 of each		Metric Deep 8mm-19mm
1 of each		Standard Shallow 1/4"-7/8"
1 of each		Standard Deep 1/4"-7/8"
1		Short Handle Ratchet
1		Long Handle Wobble Head Ratchet
1		Extensions Kit
1		Extension 24" Long
1		Speeder Wrench
1		Spark Plug Socket Set

1	1/2"	Drive Deep Metric Impact Socket set (10mm-24mm)
1		20MM
1		21MM
1		22MM
1		23MM
1		24MM
1		Drive Deep SAE Impact Socket set (3/8"-1 1/8")
1		Breaker Bar
1		Long Handle Ratchet
1		Drive Extensions Kit
1		Torx Driver Set T-8 - T-60
1		Inverted Torx Drivers E-8 - E20
1 of each		1/2"-3/8" Adapter
1 of each		3/8"-1/2" Adapter
1 of each		3/8"-1/4" Adapter
1 of each		Universal Joint Set 1/4" 3/8" 1/2"
<u>Wrench Sets</u>		
1 Set		Standard Combo 5/16"-1"
1 Set		Metric Combo 8mm-19mm, 21mm
1 Set		Standard Double end Flare Nut Wrench Set
1 Set		5 pc. 1/4" x 5/16" - 3/4" x 13/16"
1 Set		Metric Double End Flare Nut Wrench Set
1 Set		6pc. 9mm-21mm
1 Set		Metric Hex Wrench Set (Allen Wrench)
1 Set		Standard Hex Wrench Set (Allen Wrench)
1 Set	12"	Adjustable Wrench (Crescent Wrench)
<u>Pliers</u>		
1	7"	Needle Nose Pliers (Approx.)
1	8"	Slip Joint Pliers (Approx.)
1	7"	Diagonal Cutter (Approx.)
1	9"	Adjustable Joint Pliers (Approx.)
1 Set		Vise Grip Set (2 curved jaw 2 needle nose)
1		Wire Strippers/Crimpers

Additional Tools		
1 Set		10 pc Screwdriver Set; 5 Standard & 5 Phillips. Phillips need to go up to #4.
1		Radiator Hose Tool
1	16oz	Ball Peen Hammer
1	48oz	Ball Drilling Hammer
1	21oz	Soft Face Dead Blow Hammer
1	48oz	Soft face Dead Blow Hammer
1		Punch and Chisel Set Including Center Punch
1		Hacksaw with 12" Blades
1		Wire Brush Small Stainless Steel (ToothBrush)
1		Work Light/Drop Light
1		Flash light
1	12'	Tape measure
1		Carbon Scraper 7/8"
1		Putty Knife 1 1/2" Blade
1		Inspection Mirror 2 1/4"
1		Magnetic Pick up tool
1	16"	Rolling Head Pry Bar
1		Pry Bar Set 4 pcs. With Handles
1 Set		4 pc. Mini Pic Set
1 Set		Feeler Gauge Set 25 Blade Universal
1		Spark Plug Gaper (Wire Gauge preferred, Ramp Gauge Not Recommended)
1		Test Light 6-12 V Circuit Tester
1 Set		Brake Tool Set
1		Brake Caliper Depreser X 2
1 Set		Battery Terminal Service set
1		Air Chuck
1		Rubber Tipped Blow Gun
1		Tire Gauge 20-100 PSI
1		Creeper
1		Tool Engraver 110 Volt
1 pr		Safety Glasses
1 pr		Safety Goggles
1		50-250 Ft lbs Torque Wrench
1		Oil filter Tool
1		Funnel
1		Fender Cover

1		Spark Tester
1		Coolant tester
1		Cable Style Spring Clamp Pliers
1		Door Trim Tool

Note: Students will need to purchase or bring a tool box that locks to store their tools in. Due to space restrictions the maximum width of tool box allowed is 55". All students need to have their tools by the end of the first week of school unless prior arrangements have been made with the instructor.

Estimated Cost: \$4000.00

Note: Estimated costs reflect current market value and are subject to change.

Vendor Information: Tools may be purchased from the following vendors: MATCO, MAC, Snap-On Tools, Wilde or the supplier of student choice. Please contact the Department Chair, Bob Gibbens; bgibbens@ncktc.edu or 785-738-9011, with questions or for further information.