



Diesel Technology Tool List
Beloit Campus 2021-2022

Following are the required tools for the **Diesel Technology** program. These tools can be purchased from the vendor of your choice. All tools are to be of the finest 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:

<u>Qty</u>	<u>Size</u>	<u>Item</u>
<u>Drivers</u>		
1 of each	3/8"	3/8" 10 in & up Torque wrench
1 of each		Ratchet Handle
1 of each		Flex head Handle
1 of each		3 Extensions (1.5 or 3, 4 or 6, 8 or 12 in.)
1 of each		Spark Plug Sockets (5/8 & 13/16)
1 of each		Universal Joint
1 of each	1/2"	Ratchet
1 of each		Breaker Bar
1 of each		4 Extensions (2, 4, 8 & 10 in.)
1 of each		Torque Wrench (25-250 ft. lbs.)
1 of each		Universal Joint
<u>Sockets</u>		
1 of each	3/8"	Std. 1/4 - 15/16 Shallow (12 Point)
1 of each		Std. 1/4 - 15/16 Deep well (6 or 12 Point)
1 of each		Metric Shallows 8 - 22 mm (6 or 12 Point)
1 of each		Metric Deep well 8 - 22 mm (6 or 12 Point)
1 of each		Impact Deep well Sockets 3/8 – 1" (12 Point)
1 of each		Impact Metric Deep well Sockets 8 - 24 (12 Point)
1 of each		3/8 Impact Gun (Pistol Grip)
1 of each		3/8 Flex head Impact Sockets 3/8 – 3/4
1 of each		3/8 Impact Extension 12 - inches
1 of each		3/8 Torx Driver Set (T8 - T55 and 1/2" drive T60)
1 of each		1/2"
1 of each		Std. 7/16 - 1 1/4 Deepwell (6 Point)
1 of each		Metric Shallow Set 12 - 32 mm (6 Point)
1 of each		1/2" Dr. Deep well Chrome (10mm - 27mm)

<u>Wrenches</u>		
1		Polished Combination Wrench Set 1/4 - 1 1/4 Polished Metric Combination Wrench Set 6mm - 24mm.
1		Flair Nut Wrench Set 3/8 - 7/8
1		Flair Nut Wrench Set Metric 6mm - 24mm
1		6" Adjustable Wrench
1		12" Adjustable Wrench
1		14" Pipe Wrench
1		Hex Key Wrench Set Std. 0.050" - 3/8"
1		Hex Key Wrench Set Metric 2mm - 12mm
<u>Pliers</u>		
1	7"	Diagonal Pliers
1	10"	Water Pump Pliers
1	6"	Needle Nose Pliers
1	6"	Slip Joint Pliers
1		Wire Pliers (Strippers-Crimpers)
1		Lock Ring Pliers
1		Combination Snap Ring Pliers
1	10"	Curved Jaw Vise Grips
1		Transmission Service Snap ring pliers 3/32" wide ends with a 1/8" dia. dimple for snap rings with tabs • Jaws are bent at a 90° angle • 14" long
<u>Punch & Chisels</u>		
1		Pin Punch Set (3/32 - 3/8)
1		5 Piece Cold Chisel Set (1/4 - 3/4)
1		4 Piece Starting Punches (1/8 - 3/8)
1	6"	Diamond Point Chisel
1	6"	Cape Point Chisel
1		Aligning Punch Set
2		Center Punches
1		Brass Drift 3/4" x 10 or 12 in.
1		O-Ring Pick Set
<u>Cutting/ Material Preping</u>		
1 pr		Heavy Duty Scissors
1		High Tension Hack Saw
1	12"	Flat File with Molded Handle
1	12"	Round File with Molded Handle
1	12"	Triangle File with Molded Handle
1	12"	Half Round File with Molded Handle
1	1 1/2"	A114Single Heavy Blade Gasket Scraper
1		90 Degree Angle Head Die Grinder Set with Surface Prep Set
1		Inch and Metric Master Rethreading Set (Craftsman 0942275)

<u>Hammers</u>		
1	4 oz	4 oz. Ball Peen Hammer
1	16 oz	16 oz. Ball peen Hammer
1	32 oz	32 oz. Dead Blow Hammer
1	3 lb	3 lb. Cross peen Hammer
<u>Screwdrivers & Bars</u>		
1		5 Piece Straight Blade Screwdriver Set
1		5 Piece Phillips Bit Screwdriver Set
1	20"	Rolling Head Pry Bar
1	24"	Pinch Bar, 3/4 Diameter, 22 or 24 in. long
<u>Measuring</u>		
1		26 Blade Bent Feeler Gauge Set
1		Deluxe Feeler Gauge Set
1		25' Tape Measure
1		0" - 6" Dial Caliper
1		0"-1" Micrometer
1		Snap Gauge set 5/16"-6"
1		Dual Foot Tire Pressure Gauge
1		Tire Depth Gauge
1		Machinist Ruler
<u>Electrical Testing</u>		
1		Battery Service Kit (Battery Pliers, Terminal Puller, Side Post Cleaner, Clamp Spreader)
<u>Safety</u>		
1		Safety Glasses and Goggles
1		Hearing Protection
<u>General / Specialty</u>		
1		Magnetic Pick Up Tool
1		OSHA Approved Rubber Tip Blow Gun
1		Telescoping 2 1/2" Diameter Mirror
1		Dual Foot Air Chuck
1		Mini Bright Light
1		Fractional Drill Bit Set by 64/ths. To 1/2 inch. (High Speed Steel)
1		Hand Held Trouble light
1		Shoe Style Wire Brush

<u>Air Conditioning Tools</u>		
1		Manifold Gauge Set 134A
1		A/C Wrench
1		Thermometer Probe
1		<u>1/4" Dr.</u>
1		Ratchet
1		Universal Joint
1		2" & 4" Extensions
1		Std. Shallow 6 pt. 3/16 - 9/16
1		Std. Deep well 6 pt. 3/16 - 9/16
1		Metric Shallow 6pt. 4mm - 13mm
1		Metric Deep well 6pt 4mm - 13mm
<u>Miscellaneous</u>		
1		Roll Pin Punch Set
1		Bearing Punch
1	6"	Rolling Head Pry Bar
1		Seal Puller
1		4 Piece Pry Bar Set
1	3/8th"	Dr. Torque Wrench
1	3/8th"	Dr. Hex Socket Set (1/8" - 3/8")
1	3/8th"	Dr. Impact Driver Set
1		Adapter Set 6 Piece
1	3/4"	Heavy Duty Drive Set (1 1/4, 1 5/16, 1 5/8, 1 7/16, 1 1/2)
1		4000# Lifting Eyes
1	16"	Adjustable Joint Pliers
1	1/2"	Air Impact (Pistol Grip)
1		48 oz. Hand Drilling Hammer
1		Engraver

Students must purchase a Top Chest and Roll Cab large enough to hold all the listed tools

Estimated Cost: \$11,000.00

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

Vendor Information:

Tools may be purchased from MATCO, MAC, Snap-On Tools, Wilde or the supplier of student choice. Please contact the Department Chair, Roger Meier; rmeier@ncktc.edu or 785-738-9017, with questions or for further information.