

**Diesel Technology Program  
Tool List**

Estimate cost of tools \$7,210-\$8,710  
Tools required first day of classes

Qty	Description	Tool Part No.	List Price	Student Price
1	Rollaway tool cabinet with locking drawers (6 drawer minimum, 5" wheels minimum, minimum size 28"W x 19"D x 42"H).			
1	Top tool chest with locking drawers (minimum size 26"W x 15"D x 17"D).			
	<b>1/4" Drive Set – To Include:</b>			
1 set	6 point sockets (10 sockets) (3/16" through 9/16")			
1	Universal joint			
1	1 1/4" extension			
1	2" extension			
1	4" extension			
1	6" extension			
1	8" extension			
1	11" extension			
1	5" Ratchet			
1 set	6 point sockets (10 sockets) (3/16" through 9/16")-Deep			
1	Driver handle			
1 set	6 point metric (12 sockets) (5 mm through 15 mm) with 5.5 mm			
1 set	6 point deep metric (12 sockets) (5 mm through 15 mm) with 5.5 mm			
	<b>3/8" Drive Set – To Include:</b>			
1 set	6 point sockets (11 sockets) (1/4" through 7/8")			
1	Universal joint			
1	1 1/2" extension			
1	3" extension			
1	4" extension			
1	6" extension			
1	8" extension			
1	11" extension			
1	8" ratchet			
1 set	6 point deep sockets (11 sockets) (1/4" through 7/8")			
1 set	6 point metric sockets (12 sockets) (8mm through 19mm)			
1 set	6 point deep metric sockets (12 sockets) (8mm through 19mm)			
1 set	Metric hex bit sockets (11 pieces) 4mm-14mm			
1	Torx (12 piece) socket set – T8 through T55			
1 set	Standard hex bit sockets (12 pieces) 1/16" – 3/8"			
1	Spark plug socket (5/8")			
1	Spark plug socket (13/16")			
	<b>1/2" Drive Set – To Include:</b>			
1 set	12 point sockets (15 sockets) (3/8" through 1 1/4")			
1 set	12 point metric sockets (13 piece) (12mm through 24mm)			
1	4" to 6" extension			
1	11" extension			
1	18" to 20" flex handle			
1	Universal joint			
1	Ratchet (reversible)			
1 set	1/2" drive deep impact sockets (6 point) (1/2" through 1 1/4")			
	<b>Combination Wrench Set</b>			
1 set	Long combination wrench set (17 wrenches) (1/4" through 1 1/4")			

1	Long combination metric wrench set (17 wrenches) (8mm through 24mm)			
	<b>Screwdriver Set</b>			
1 set	Standard tip (1/4" x 2", 3/16" x 3", 1/4" x 4", 1/8" x 6", and 3/8" x 8")			
1 set	Phillips tip (#1, #2, #3 and stubby #2)			
1	Ratcheting Screwdriver			
	<b>Hammers</b>			
1	Ball peen hammer (16 oz.)			
1	Ball peen hammer (32 oz.)			
1	No bounce hammer (24 oz and 48 oz)			
	<b>Pliers</b>			
1	8" slip joint pliers			
1	Diagonal cutting pliers (7" minimum)			
1	10" channel lock pliers			
1	7" needle nose pliers			
1	Terminal crimp and wire cutter			
1	10" grip pliers with curved jaws			
1	Snap ring pliers (90 degree with dimples, 3/32 wide angle tip, 1/8 thick end (approximately 8 1/2 inches long)			
1 set	Minimum 5 piece snap ring pliers set (internal/external)			
	<b>Chisel and Punch Sets</b>			
1 set	Chisels (5/16", 3/8", and 1/2")			
1 set	Starter punches (3/32", 1/8", and 5/32")			
1 set	Pin punches (3/32", 1/8", and 5/32")			
1	Center punch (6")			
1	8" Brass drift punch			
1	20" Oval Bearing Race Punch			
1	Punch – long stock 3/4" x 3/8" tip (15" long)			
1	Bushing Cutter			
	<b>Pry Bars</b>			
1	Roll head – line-up pry bar (5/16" by 6"), (1/2" x 12"), (5/8" by 16"), (11/16" by 20")			
1	30" Die Setter Pry Bar			
1 set	4 piece pry bar with plastic handle (8-24")			
	<b>Battery Tools</b>			
1	Battery terminal and cable brush			
1	Wire brush			
	<b>Miscellaneous Tools</b>			
1	Pair of clear safety glasses			
1	Leather Welding gloves (SMAW) economy grade			
1 set	Hex keys (13 piece with long handles) (1/20" through 3/8")			
1 set	9 piece metric hex key set 1.5 mm through 10 mm			
1 set	O-ring pick set (4 piece)			
1	Circuit tester (power-on)			
1	Blow-gun, rubber tipped			
1	Gasket scraper			
1	Mill file (10") with handle			
1	Rat tail file (8") with handle			
1	Mill file (8") with handle			
1	Square file (6") with handle			
1	Telescoping flex magnet (16")			
1	Inspection mirror			
1 set	Feeler gauges (.0015" through .035")			
1 set	Feeler gauges bent blade (.006" through .030")			
1	Adjustable utility knife			
1	Adapter (1/2" female by 3/8" male)			

1	Adapter (3/8" female by 1/2" male)			
1	Adapter (1/2" female by 3/4" male)			
1	Adapter (1/4" female by 3/8" male)			
1	Adapter (3/8" female by 1/4" male)			
1	Adapter (3/4" female by 1/2" male)			
1	Vernier caliper dial type (5" to 6" by thousands)			
1	Fluke 179 meter or equivalent (must include temperature probe)			
1	Micrometer (0" to 1")			
1	Soldering Iron (50 Watt minimum)			
1	Pipe wrench (16")			
1	Tire PSI Gauge			
1	Tire air chuck			
1	Dial indicator set (no digital)			
1	Tire valve core remover			
1	12" hacksaw			
1	Putty Knife/Scraper			
1	6" US/Met pocket ruler with T bar, stainless steel			
1	Tread Depth Gauge			
1	Tape Measure 25ft			
1 set	Line wrenches (6 point) (10 wrenches, 1/4" through 13/16")			
1 set	Line wrenches (6 point) (9mm through 21mm)			
1	Adjustable wrench (12")			
1	Door Panel Tool			
1	Coil-on Spark Plug Tester			
1	R-134a Gauge manifold set with 72" hoses with manual tap ends on the hoses			
	<b>Supplies required for the Related Welding Course</b>			
1	Welding helmet with #10 lens. Fixed or lift front. Can be auto darkening. Extra lenses. No sharing of welding hoods.			
1	Welding cap			
1	Welding cutting goggles with #5 lens. Green-2"x4 1/4" fixed front or auto welding hood that goes to a shade 4 or 5 lens for cutting.			
1	Clear safety glasses			
1	Ear plugs			
1	Standard pliers			
1	Mig welding or needle nose pliers			
1	Shielded metal arc leather and Gas metal arc leather welding gloves			
1	Chipping hammer			
1	Carbon steel wire brush			
1	Economy 4 1/2" grinder with two 1/4" grinding wheels and 1 wire wheel attachment. You can purchase an inexpensive grinder for under \$20 if you currently don't own one.			
1	Pocket flashlight (rechargeable flash light or work light.)			
1	Bucket or bag to haul supplies in. No lockers available in welding lab area.			
	<b>PPE required for Related Welding Course</b>			
1	100% cotton long sleeve work shirt. To be worn under your flame-resistant jacket. NO HOODIES			
1	Flame resistant jacket 100% cotton			
1	Fitted jeans with no holes or frays			
1	Leather work boot can be steel toed. No sneakers			

<b>Optional Tools (Not Required by Program)</b>				
<b>Option #1</b>				
1	1/2" impact wrench			
1 set	Impact sockets (6 point, 7/16" through 1 1/4")			
1	3/8" drive air ratchet			
1	Torque wrench (1/2" drive, 250 lbs.)			
<b>TOTAL COST FOR OPT #1 TOOLS</b>				
<b>Option #2</b>				
1	3/8" drive universal flex sockets (6 point) (7 sockets, 3/8" through 3/4")			
1	Filter wrench (12")			
1	Straight flute screw extractor set (5 piece) (#1 through #5)			
<b>TOTAL COST FOR OPT #2 TOOLS</b>				
<b>Option #3</b>				
1 set	3/4" drive sockets (12 point) (17 sockets, 7/8" through 2")			
1	3/4" extension (8" long)	SET		
1	3/4" extension (16" long)	SET		
1	3/4" ratchet (20" to 24" long)	SET		
1	3/4" flex handle (20" to 24" long)	SET		
1	Pry (pinch) bar (3/4" x 15/16" wide) (18" to 20" long)	2420A		
1	High speed drill bit set (1/16" through 1/2" reduced shank)	DBTR129		
<b>TOTAL COST FOR OPT #3 TOOLS</b>				

Request tool vendor to deliver tools to Northeast Community College by August 19, 2024, first day of classes.