The following tools are necessary for all stages of the Diesel Tech Program. These tools should be available in all courses at all times.

**FIRST SESSION TOOLS**

1ea 1/4" drive - socket, 6 point hex, regular length sizes: 3/16" 7/32" 1/4" 9/32" 5/16" 11/32" 3/8" 7/16" 1/2"
1ea 1/4" drive – socket, 6 point: 5, 6, 7, 8, 9, 10, 11, 12, 13 mm
1 1/4" drive - Ratchet, reversible
1 1/4" drive - Extension, 3 1/2"
1 3/8" drive - socket, 6 point regular length sizes: 5/16" 3/8" 7/16" 1/2" 9/16" 5/8" 11/16" 3/4"
1 3/8" drive – 7" minimum Ratchet, reversible
1ea 3/8" drive - Extension, 1 3/4", 3 1/2", 5"
1ea 3/8" drive - socket, 6 point, deep length sizes: 3/8" 7/16" 1/2" 9/16" 5/8" 11/16" 3/4"
1ea 3/8" drive - socket, 12 point, impact universal joint sizes: 3/8" 7/16" 1/2" 9/16" 5/8" 11/16" 3/4"
1ea 3/8" drive - socket, 6 point, regular length sizes: 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19 mm
1ea 1/2" drive - socket, 12 point, Regular Length sizes: 7/16" 1/2" 9/16" 5/8" 11/16" 3/4" 13/16" 7/8" 15/16" 1", 1 1/16", 1 1/8", 1 1/4"
1 1/2" drive - Adapter, 1/2" F, 3/8" M
1 1/2" drive - Ratchet, reversible 10 1/4" minimum
1ea 1/2" drive - Extension, 2 1/2", 5", and 10" long
1 1/2" drive - Flex Handle, 18 1/2" long minimum
1ea 1/2" drive - socket, 6 point, regular length sizes: 13, 14, 15, 16, 17, 18, 19, 21, 22, 23 mm
1 Battery post cleaner
1 Brush, wire
1 Chisel, Cold, 5/16" cut, 1/4" hex, 5 1/8" long
1 Chisel, Cold, 3/4" cut, 19/32" hex, 7" long
1 Chisel, Cold, 5/8" cut, 23/32" hex, 8" long
1 Drill Index
1 Extractor set (easy outs)
1 File, mil bastard with handle, 12"
1 File, round bastard with handle, 14"
1 File, tri-corner with handle, 10"
1 Flashlight, heavy duty 2-D cell
1 Gauge, Feeler 26 pieces: .0015 - .025 Offset 45 degree angle recommended
1 Hacksaw
1 Hammer, ball pein, 1 LB, polished only, 14 1/2" long
1 Hammer, ball pein, 40 oz
1 Hammer, deadblow, plastic, or rubber 3 LB
1 Piece of canvas 4 foot by 4 foot
1 Magnet, Telescoping, 16 3/4" long
1 Multimeter, digital (Check with Instructor before purchasing.)
1 Pliers, lock ring, 8 1/4"
1 Pliers, diagonal cutting, 8"
1 Pliers, external snap ring, 7" and 9", hole type
1 Pliers, internal snap ring, 7" and 9", hole type
1 Pliers, snap ring, 9", flat end type
1 Pliers, lever wrench (Vise Grips), 8"
1 Pliers, needle nose, side cutting, 6"
1 Pliers, power track, (Channel Locks) 10"
1 Pliers, slip joint, 8"
1 Pliers, Electrical stripper/cutter/crimper, 8"
1ea Punch, Pin, 1/8" dia, 5/32", 3/16", 1/4" 5/16", 3/8"end diameter
1ea Punch Set, tapered start, 5/8" x 12" L, 3/4"
1 Punch, 5/8" Center
1 Punch, Brass Drift, 1/2" straight, 12" L
1set Punch, Brass drift set 3 piece min.
1 Roll head bar 19/32" hex, 16" long, Snap-On #1650, Mac #LF16, or equivalent
1 Ruler, flex steel, 1/2" x 6", #4 graduations
1 Scraper, carbon 12", HD plastic handle
1set Screw extractors (Easy-outs)
1ea Screwdriver, Phillips #1, 6 1/2" and #2, 8 1/4"
1 Screwdriver, standard tip, round shank, 13"
1ea Screwdriver, standard tip, square shank, 6 1/2" and 10 1/2"
1 Solder gun
1 Square, combination 12
1 Tape measure, 1/2" x 12'
1 Test light
1 6" Dial Caliper
1ea Wrench flare, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21mm
1ea Wrench, combination sizes: 1/4, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1, 1 1/16, 1 1/8, 1 1/4 inches
1 Wrench, 14", heavy duty, pipe
1 Wrench filter strap
1 ½ Drive Torque Wrench, 25ft/lb. – 250ft/lb Torque, torque left and right
1ea Wrench, combination sizes: 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 23 mm
1ea Adjustable wrench (Crescent) 8", 12"
1 SAE Allen wrench set: 1/16 to 3/8
1 Metric Allen set: 1.5mm to 10mm
1 set Torx Sockets T10 to T55
1 4 Piece Mini pick set
1 set Pry bars (Various lengths)
1 butane torch
1 Tool Chest, Six drawer, removable top, 26"W x 12"D x 14 1/2"H
1 full size removable tote tray, 3-4" width drawers 2" D
2 full-width drawers 2" D, 1 full-width drawer 4" D