

## DST Student Tool Kit

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This list is divided into REQUIRED and OPTIONAL. The source for the tools is entirely your choice. Some suggestions are Craftsmen, Harbor Freight, Snap-on, Mac, Cornwell. Prices and quality vary. If you are 110% certain that being a diesel tech is your lifes calling, then consider your tools as an investment, not an experiment.

**REQUIRED** of all students entering the Diesel Technology program:

Tool box	Should be lockable and large enough to adequately hold the tools on this list. Extremely large boxes are discouraged due to space available.
12 pt inch combination wrench set	1/4" through 1-1/4"
12 pt metric combination wrench set	7,8,9,10,11,12,13,14,15,16,17,18,19,21mm sizes
1/2" drive ratchet / socket set	INCH SIZES: 7/16 through 1-1/4, 12pt METRIC SIZES: 9 through 18mm, 12 pt Ratchet Breakover bar 6" extension
3/8" drive ratchet / socket set	INCH SIZES: 1/4 through 7/8, 12 pt Ratchet 6" extension
1/4" drive ratchet / socket set	INCH SIZES: 3/16 through 1/2 deep (12 pt preferred) METRIC SIZES: 4 though 13mm Ratchet Spinner handle (like screwdriver handle to accept sockets)
Pliers (6)	10" Water pump pliers (tongue & groove) 6" slip joint pliers 5-1/2 to 6" sized long nose pliers (needle nose) 7 to 8" diagonal cutters 8 to 10" curved jaw locking pliers (like Vice Grip style) Electrical strip & crimp tool
Snap Ring Pliers (3)	3 sizes, fixed tip (not interchangeable tips) convertible type (internal-external) (small straight tip, medium straight tip, medium 90 degree tip)
Screwdrivers	Straight Blade: 1/8, 3/16, 1/4, 5/16 width, various lengths Phillips: 0,1,2, various lengths
Hex (Allen) wrenches	INCH: .028, .035, .050, 1/16, 5/64,3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4, 5/16, 3/8  METRIC: 1.5, 2, 2.5, 3,4,5,6 mm
Hammers	16 oz Ball-pein

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	2 Lb soft faced dead blow
Punches & Chisels	Cold chisel, 1/2" width, 5-6" length Center punch, 5-6" length 3/16" pin punch, 5-6" length
Bars	Rolling Head Pry Bar, 15 x 1-15/16 head Pinch Bar, 15 -16" length
DVOM	Digital Volt Ohm Meter (Fluke 115 preferred, but brand not required) <b>MUST</b> be auto-ranging and have 10 Megohm or greater impedance
MISC.	Feeler blade set: .0015" through .035", angled blade type Heavy bladed gasket scraper (a 3/4 to 1" wood chisel slightly dulled can serve here) Tape measure 6' minimum Inspection mirror (2-3" mirror, extendable) Hook and scribe (o-ring pick) Magnetic pick-up tool, extendible or flexible Flashlight (a good pocket size is ok) Pocket or utility knife (sharp..please) Torque Wrench: Beam type, 0-150 Ft. Lb. (may substitute from optional list)
Safety Equip.	Safety glasses: Must be ANSI Z87 or better, clear or light yellow, NO mirrored Steel toe safety boots (composite type ok)

**OPTIONAL** may be added if desired:

1/2" drive	<p>INCH SIZES: 6 pt 7/16, 1/2, 9/16 (or full set of 6 pt) 12 pt deep 1/2 through 7/8 (or full set of deep 12 pt)</p> <p>METRIC SIZES: 6pt metric 12 pt deep</p> <p>Additional extensions Speed handle Universal joint</p>
3/8" drive	<p>INCH SIZES: 6pt deep 3/8 through 7/8 6pt flex 7/16, 1/2, 9/16, 5/8, 3/4 Spark plug 13/16, 5/8</p> <p>METRIC SIZES:</p>

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	6pt 10 -18  Universal Joint Additional extensions
1/4" drive	INCH SIZES: 3/16 through 1/2 standard depth, 6 pt METRIC SIZES: 4 through 13mm deep 6 pt or 12pt Additional extensions Universal Joint Flex sockets
Flare Nut Wrenches	3 piece flair nut wrench set 3/8x7/16, 1/2x9/16, 5/8x11/16 3 piece metric flair nut wrench set 11x12mm, 13x14mm, 15x17mm
Torx	Torx Key set T-7, T-8, T-9, T-10, T-15, T-20, T-25, T-27, T-30, T-40, T-50, T-55
Hammers	3 Lb. engineer or cross-pein 8 oz. Ball-pein
Punches & Chisels	Full set (11 – 14 pieces) Brass Drift 6 to 10" size
MISC	Angled feelers (tappet set) .008 through .026" 0-1" micrometer 0-6" Caliper 12" Pipe wrench Torque Wrench: 30-250 Ft. Lb. adjustable, ratchet type (may sub this for beam type on required) Torque wrench: 50-250 In. Lb. adjustable, ratchet type Torque wrench: 10-150 In. Lb. beam type Stepped type feeler gauge (go / no-go) set
OTHER	Anything else that you think may be handy that is not a prohibited item.
COMPUTER	This item is strongly recommended, but not required. We have many manuals, bulletins, instruction and work sheets that will need to be used. Many of these are in electronic format. A good tablet or laptop will suffice if you choose to have one.

### PROHIBITED ITEMS:

- 1) Adjustable wrench (usually referred to as a Crescent wrench)
- 2) Test light probes
- 3) Impact wrenches (air or electric)