

## Diesel Equipment Technology Student Tool List

Name: \_\_\_\_\_

Suggested Minimum Requirements:

<b>Personal Protection:</b>	<b>Own It</b>	<b>Marked It</b>	<b>Will Buy On</b>
Safety Glasses, ANSI Z-87.1			
Work boots or shoes, must have hard (steel or fiberglass) toes, leather, no vent holes below laces.			
Work gloves, heavy duty			
Hearing protection, ear muffs or plugs			
Clothing – pants must reach top of shoes and bottom of shirt at the same time. Shirt must have sleeves (no tank tops). No clothing may have printing or graphics that is not professional.			

<b>1/4 Inch Square Drive:</b>	<b>Own It</b>	<b>Marked It</b>	<b>Will Buy On</b>
Six Point Standard Sockets:			
5/32, 3/16, 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16, 1/2, 9/16			
Six Point Metric Sockets:			
4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14			
Drive Tools (1/4"):			
Ratchet			
Nut driver type drive tool			
Breaker bar			
1 1/2" extension			
3" extension			
6" extension			
Universal joint			

<b>3/8 Inch Square Drive:</b>	<b>Own It</b>	<b>Marked It</b>	<b>Will Buy On</b>
Six Point Standard Sockets:			
5/16, 11/32, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1			
Six Point Deep Sockets:			
5/16, 11/32, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1			
Six Point metric Deep Sockets:			
8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21			
Hex Bit Standard Sockets:			
5/32, 3/16, 7/32, 1/4, 5/16, 3/8			
Torx Bit Sockets:			
T-15, T-20, T-25, T-30, T-40, T-45, T-50 (Note: Smaller sizes may be 1/4" drive)			
Drive Tools (3/8"):			
Ratchet			
Breaker Bar			
Dial Torque Wrench 0 - 150 in-lbs.			
Click Type Torque Wrench 10 – 100 ft-lbs			
3" extension			
6" extension			
12" extension			
3/8" to 1/2" drive adapter			
Universal joint			

<b>1/2 Inch Square Drive:</b>	<b>Own It</b>	<b>Marked It</b>	<b>Will Buy On</b>
Six Point Standard Sockets:			
7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1, 1 1/8, 1 1/4			
Six Point Standard Deep Sockets:			
1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1			
Drive Tools (1/2"):			
Ratchet			
Breaker bar			
Click Type Torque Wrench 50 – 250 ft-lbs			
Air powered impact gun & air fitting (optional)			
2" extension			
6" extension			
12" extension			
Universal joint			

<b>3/4 Inch Square Drive (May be 1" Square Drive):</b>	<b>Own It</b>	<b>Marked It</b>	<b>Will Buy On</b>
Six Point Standard Sockets (Impact socket recommended):			
13/16" (21 mm) 4 – point (for inner nuts on dual wheels), 33 mm, 1 1/2" (38 mm), 1 5/8" (41 mm) (May be purchased as a combination of "flip sockets")			
Drive Tools (3/4"):			
Breaker bar			
6" extension (Impact recommended)			
12" extension (Impact recommended)			

<b>Wrenches:</b>	<b>Own It</b>	<b>Marked It</b>	<b>Will Buy On</b>
Standard Combination Wrenches:			
1/4, 5/16, 11/32, 3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1, 1 1/8, 1 1/4			
Metric Combination Wrenches:			
8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19			
Standard Flare Nut Wrenches:			
3/8, 7/16, 1/2, 9/16, 5/8, 11/16, 3/4 (Note: Each wrench may combine two sizes)			

<b>Screwdrivers:</b>	<b>Own It</b>	<b>Marked It</b>	<b>Will Buy On</b>
Slotted Screwdrivers:			
1/8"x4", 1/4"x4", 3/16"x4"			
Phillips Screwdrivers:			
#0x2.5", #1x3", #2x4", #3x6"			

<b>Pliers:</b>	<b>Own It</b>	<b>Marked It</b>	<b>Will Buy On</b>
Arc Joint (Trade Name Channel Lock), 10" or larger			
Locking Pliers (Trade Name Vice Grip), 10"			
Needle Nose Locking Pliers			
Diagonal Cutting, 8"			
Long Nose, 8"			
Slip Joint, 8"			
Snap Ring, Duckbill			
Snap Ring, Internal and External, Straight, 45 and 90 degree (may be set of individual snap ring pliers or replaceable bit type)			
Wire Stripper/Crimper			

Miscellaneous:	Own It	Marked It	Will Buy On
Inspection Mirror			
Magnetic Pick-Up Tool			
12VDC Test Light			
Soldering Iron & Accessories			
12 oz. Ball Peen Hammer			
20 oz. Ball Peen Hammer			
2 lb. Rubber Hammer			
Air Chuck, Dual Foot (30 degree & straight) with air line adapter			
Tire Pressure Gauge, Dual Foot 0-150 PSI			
Tire Tread Depth Gauge			
Safety Blow Gun with air adapter			
File – 10” Flat Bastard with handle			
File – 10” round, bastard cut with handle			
Thermometer – Dial or Digital Type with 4” probe			
Wire Brush			
Gasket Scraper			
O-ring pick set			
Center Punch			
Punch and Chisel Set			
Outside Micrometer, 0 – 1” (Not Digital)			
Dial Caliper, 6”			
Dial Indicator and Magnetic Base			
Locking Tool Box (Roll away OK; sufficient size for all tools on list)			
Battery service kit (pliers, puller, spreader) - Post cleaner			
Automotive Digital Volt/Ohm Meter (DVOM)			
Electric Engraver for marking tools			
Cold rolled drift (3/4” x 18” long)			
Brass drift (3/4” x 18” long)			
Adjustable Hack Saw Frame and 5 hacksaw blades			
Feeler Gauge Set 0.0015” = 0.035”			
6 “ Machinists Rule			
Pry Bar Set 6 – 24”			
Roll Head Pry Bar (Lady Foot) 9/16”			
Hand Operated Grease Gun and Grease Cartridge (HD bearing grease, not synthetic)			
Tap and Die Set, SAE Course Thread			
Flashlight			
Tape Measure, 25’			

Instructor Recommended:	Own It	Marked It	Will Buy On
Box of Nitrile Gloves			
Box of Pollen Masks			

### Tools I Need (Wish List)

[illegible]