

# Diesel Equipment Technology Tool List

This list comes from the NATEF guidelines and common knowledge of the requirements of an entry-level diesel technician.

Use this tool list as a **minimum** to achieve as you continue through the different phases of the program. Be aware that it is **not** uncommon for a technician to have in excess of \$10,000 invested in tools.

This list may be used as a guide when evaluating employability standards. rev. 10/14

Beginning tools	First year tools	Second year tools
<b>Pliers:</b>		
Pliers - Combination 6"	tin snips	Snap Ring Pliers Set
Needle Nose 6"	Electrical Pliers - Crimper/Stripper	20" Slip Joint
Side/Diagonal Cutting	9" Vise grips	
<b>Screwdrivers, pry bars, scrapers:</b>		
Screwdriver Set - Slotted & Phillips - minimum 8pcs.	Rolling head pry bar, 3 piece set to 20"	Plastic handle pry bar, 4 pieces to 24"
12-Piece T5-T40 Torx Driver Set	pinch bars, 3 piece set to 38"	Gasket Scraper Set (putty knife)
<b>Socket sets: Industrial or Black Finished Recommended</b>		
<b>1/4 inch drive:</b>	<b>1/4 inch drive:</b>	<b>1/4 inch drive:</b>
	Sockets 7/32"-1/2" Standard Depth	Sockets 7/32"-1/2" Deep
	Sockets 5mm-12mm Standard Depth	Sockets 5mm-12mm Deep
	3", 6" Extensions	Universal Joint
	Ratchet	
<b>3/8 inch drive:</b>	<b>3/8 inch drive:</b>	<b>3/8 inch drive:</b>
Impact Sockets 3/8"-3/4" Standard Depth	Spark Plug Sockets 5/8", 13/16"	Flexible Socket Set 3/8"-3/4" - impact
Impact Sockets 3/8"-3/4" Deep	Universal Joint	Flexible Socket Set 10mm-19mm
Impact Sockets 10mm-19mm Standard Depth	Torx - T10 -T45 male and female	Air or Battery Operated Ratchet
Impact Sockets 10mm-19mm Deep		Pneumatic or Battery Operated Impact Wrench
3", 6", 12" Extensions		3/8" to 1/2" impact adapter
Ratchet		Fine Tooth, Flex Head, 3/8" Ratchet
<b>1/2 inch drive:</b>	<b>1/2 inch drive:</b>	<b>1/2 inch drive:</b>
Impact Sockets 1/2"-1" Standard Depth	24" Breaker Bar	Ratchet, Long
Impact Sockets 10mm-19mm Standard Depth	3", 6", 12" Impact Extensions	1/2" to 3/8" impact adapter
Pneumatic or Battery Operated Impact Wrench	Universal Joint - impact	1/2" to 3/4" impact adapter
Ratchet, Short	1/2" Torque Wrench: Electronic Recommended	1/2" Stud Remover
		Impact Sockets 1/2"-1-1/4" Deep
		Impact Sockets 10mm-21mm Deep
<b>Wrenches: Industrial or Black Finished Recommended</b>		
Combination Wrenches-Standard (1/4"-1")	Adjustable Wrench 8", 12" & 15"	Combination Wrenches (1 1/16"-1 1/4")
Combination Wrenches-Standard (7mm-19mm)	Allen Wrench Set - Standard to 3/8"	
	Allen Wrench Set - Metric to 10mm	
	Flare Nut Combination 3/8" to 3/4"	
<b>Chisels, punches, hammers, saws, drills and files:</b>		
Punch and chisel set	File Set with handles	Pin punches 9/32" to 9/16" (tip)
Hammer 16oz & 24oz Ball Peen	Brass drift punch 13/16" x 12"	Drift pin punch 1" x 21"
	Dead Blow Hammer 3#	Flat chisel 7/8" x 18"
	Hack Saw w/spare blades	4# (ball peen, cross peen, or sledge)
	Drill 3/8" VSR (cordless recommended)	Flat chisel set 5/16" to 5/8"
	Drill Bit Set 1/64" to 1/2" by 64ths	5# Dead Blow Hammer
<b>Miscellaneous: Air Tools Require Coupling Fittings</b>		
0" to 6" Electronic Digital Caliper	Air Blow Gun (rubber tipped) w/air fittings	Parker Fitting ID Kit OR Equiv
LED Flashlight	Battery Post Cleaner	
Oil filter Wrenches	Battery Terminal Pliers	1/4" Die grinder w/cutting bits
<b>Safety glasses OSHA approved-MANDATORY TOOL</b>	Brake Spring Pliers	Tap & Die Set to 1/2" & 10mm, Course & Fine
Tire Air Chuck	Creeper (HD NOT wood)	Soldering gun / iron
Tire Pressure Gauge	Welding Gloves, Steel Toe Leather Boots	50' 3/8" Air Hose
Large Tool Box or Service Cart	Inspection Mirror	Feeler Gauge (Blade Type) .002"--.040"
Digital Multimeter (AC/DC V, ohms & 10A) Fluke 115 minimum	Jumper Wire Set (small gauge for testing)	16' x 1" Measuring Tape
DC/AC Clamp-on Ammeter-3 examples given below	Magnetic Pickup Tool	Dial Indicator w/magnetic base
Fluke 375 OR Midtronics PDF40 OR Wavetek 105 OR Equiv.	O Ring Pick set	Brass Feeler Gauge Set
	Spark Plug Feeler Gauge (Gap Tool)	
Wireless Tablet or Notebook Computing Device	Tire Tread Depth Gauge	
IR & contact thermometer Fluke 561 or equivalent	Overalls, Face Shield, Cutting Goggles	