

Diesel Technology

ThinkBig Tool List

The following is a generic list of the tools **required** for the LATI-Diesel Technology ThinkBig program. It is important that students begin their professional diesel technician career by purchasing **professional, mechanic grade tools**. Questions regarding the suitability of specific tools should be directed to the diesel technology staff.

OSHA approved safety glasses or OSHA approved prescription glasses with side shields (Z-87)	Snap ring pliers – angle jaws 7 7/16
Ear plugs	Vise Grip - 10" curved jaw
Welding gloves	Screwdriver set (straight & phillips)
Welding glasses	Hex key set with ball-end (.050" – 3/8")
Tool Box-roll around cabinet (5 to 12 drawer)	Gasket scraper
Torque wrench (5-75 lbs/ft) FH	Punch & chisel set (including center punch)
Torque wrench (250 lbs/ft) FH	Pry bar
Wrench set – combination (3/8" – 1 1/4")	Cold rolled drift (3/4" x 18" long)
Wrench set – flare nut (3/8" – 3/4")	File – 6" single cut
Socket set – 1/4" dr., with ratchet (3/16" – 1/2") including metric (4 – 13mm), shallow 12 pt	File – 10" double cut
Socket set – 3/8" dr. (3/8" – 3/4") shallow and deep, with ratchet and extensions 12 pt	File – 10" round, bastard cut
Socket set – 1/2" dr. (7/16" – 1-1/8") shallow, with ratchet, breaker bar and extension 12 pt	Hacksaw – with 12" x 24T blades
Socket set – metric, 3/8" dr., (8-19 mm), shallow and deep 12 pt	Wire brush, full size
Hammer – ball peen (16 oz.)	Blow gun (heavy duty)
Hammer – cross peen (24 oz.)	Feeler gauge (.0015" - .030") offset
Pliers – standard	Dial caliper 0 – 6" range
Pliers – needle nose	Dial indicator
Pliers – diagonal cutter	Fluke multimeter
Pliers – wire stripper, crimper	O-ring pick
Pliers – retaining ring, fixed tip, convertible (small & large) .070 tp	Magnetic pickup tool
Snap ring pliers – angle jaws 8 7/8	Tape measure – 12'
	Inspection mirror
	Air hose – 3/8" x 25' (1/4" NPT) with universal female coupler
	Trouble light – fluorescent, non-metallic
	Tire chuck
	Tire tester – 120 psi capacity
	Lifting brackets

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Complete diesel technician tool sets **may be** purchased from the LATI bookstore. Tools may also be purchased individually from many other sources. You are encouraged to shop around. Visit with area diesel technicians for additional information regarding tool selection.

REMEMBER – A career as a diesel technician starts with a set of *professional grade* tools. *Hobby grade* tools are NOT satisfactory for this occupation. Buying tools is a career long process necessitated by changing technology and the desire to do a job better and/or faster. As a tool set moves from basic to more complete, personal preferences regarding such things as brand, size, shape, and design play an increasingly important role in tool selection.

Questions regarding the purchase of a basic tool set through LATI may be directed to the LATI-Bookstore. Phone (605) 882-5284 Ext. 318 or 336.

Note: The composition of tool sets available from the various tool suppliers typically vary somewhat. A particular tool set may include “extra” tools, while a similar set may be “lacking” some tools listed on the LATI Diesel Technology tool list. Generally, the various tool sets will all provide satisfactory service to diesel technology students. If you have questions regarding the suitability of a particular tool set, contact the LATI Diesel Technology department (605) 882-5284 ext. 266.

Additional tools may be purchased throughout the year to “personalize” a tool set. For more diesel technology tools information, visit www.lakeareatech.edu.