

Diesel Technology

Tool List

The following is a generic list of the tools *required* for the LATI-Diesel Technology 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)

Ear plugs

Tool Box-roll around cabinet (5 to 12 drawer)

Wrench set – combination (3/8" – 1 1/4")

Wrench set – flare nut (3/8" – 3/4")

Socket set – 1/4" dr., with ratchet (3/16" – 1/2") including metric (4 – 13mm), shallow 12 pt

Socket set – 3/8" dr. (3/8" – 3/4") shallow and deep, with ratchet and extensions 12 pt

Socket set – 1/2" dr. (7/16" – 1-1/8") shallow, with ratchet, breaker bar and extension 12 pt

Socket set – metric, 3/8" dr., (8-19 mm), shallow and deep 12 pt

Hammer – ball peen (16 oz.)

Hammer – cross peen (24 oz)

Pliers – standard

Pliers – needle nose

Pliers – diagonal cutter

Pliers – wire stripper, crimper

Pliers – retaining ring, fixed tip, convertible (small & large) .070 tp

Vise Grip - 10" curved jaw

Screw driver set (straight & phillips)

Hex key set with ball-end (.050" – 3/8")

Gasket scraper

Punch & chisel set (including center punch)

Pry bar

Cold rolled drift (3/4" x 18" long)

File – 6" single cut

File – 10" double cut

File – 10" round, bastard cut

Hacksaw – with 12" x 24T blades

Wire brush, full size

Blow gun (heavy duty)

Feeler gauge (.0015" - .030") offset

O-ring pick

Magnetic pickup tool

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

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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.