VTC Diesel Tech Student Required Tool List

(Must be purchased and on premises by first day of lab)

CLOTHING:

- VTC t-shirts: supplied by program first day of lab
- Black jeans or black work pants for labs supplied by student: must be in possession by first lab session. (3 pair suggested)
- Steel/safety toe work boots, or steel/safety toe leather hiking boots. Must be leather, not vinyl or other materials. Supplied by student.
- Safety glasses

3/8” DRIVE:

- 3/8” drive ratchets- standard- required, stubby and flex handle (long) - optional
- 3/8” drive extensions- 1”, 3”, 6” and 11” lengths
- 3/8” drive universal joint
- 3/8” drive metric shallow 6pt socket set- 8mm thru 19mm
- 3/8” drive metric deep 6pt socket set- 8mm thru 19mm
- 3/8” drive fractional deep 6pt socket set- 5/16”- 7/8”
- 3/8” drive torque wrench
- 3/8” drive to 1/2” drive socket adaptor

1/2” DRIVE:

- 1/2” drive ratchet- long handle recommended
- 1/2” drive breaker bar- optional
- 1/2” drive impact extensions- 3”, 5” and 11”
- 1/2” drive metric impact shallow socket set 6pt- 10mm-24mm
- 1/2” drive metric impact deep socket set 6pt- 10mm-24mm
- 1/2” drive fractional impact deep socket set- 1/2”- 1-1/4”
- 1/2” drive torque wrench
- 1/2” Impact wrench- 400 ft-lbs in reverse minimum

3/4” DRIVE:

- 3/4” drive ratchet
- 3/4” drive breaker bar
- 3/4” drive fractional socket set 1-1/16”- 1-7/8”
- 3/4” drive extensions 6” and 12”

WRENCHES:

- 10mm thru 19mm combination wrench set- 6 or 12pt- 6pt recommended
- Adjustable wrench - 12"
- 3/8” thru 1-1/4” (including 1-3/16” wrench) combination wrench set - 6 or 12pt - 6pt recommended
- Fractional brake tubing wrench set - 1/4” thru 13/16”
- Metric brake tubing wrench set - 9mm thru 21mm

**SCREWDRIVERS:**

- Flat tip set - 3”, 6”, 8”, 10”, and 13” long - these are approximate lengths
- Phillips set - #1(7”), #2(3”), #2(8”) long - these are approximate lengths
- Torx screwdrivers - T8, T10, T15, T20, T25 required, can purchase entire set.

**PLIERS:**

- Needle nose pliers
- Combination slip jaw pliers
- Adjustable slip joint (channel lock type) pliers
- Diagonal cutter pliers
- Small, medium and large size locking pliers with curved jaw (vise grip type)
- Small size needle nose locking pliers (vise grip type)
- Wire stripping/crimping pliers
- Snap ring pliers, fixed tip, small, medium and large 0 degree (straight) Outside/inside type
- Snap ring pliers, fixed tip, small and large 90 degree Outside/inside type

**MISC. HAND TOOLS:**

- Punch/chisel set - 5pc minimum
- Plastic tipped hammer
- 16 oz ball peen hammer
- Telescoping inspection mirror
- Telescoping magnet
- Pick set, straight, 45 deg, 90 deg, and curved
- Gasket scraper
- Standard feeler gauge set
- LED flashlight
- 18” pry bar
- 36” pry bar
- Radiator hose pick set
- Torx drive socket set - T27 thru T55
- Spark plug gap tool
SPECIALTY TOOLS:

- Battery service kit- terminal pliers, wrench, and cleaner
- Digital multi meter- must be a CATIII 1000v meter
- Fender covers (2 required)
- Tread depth gauge
- OSHA approved blow gun
- Clip board for lab papers

TOOL STORAGE:

- Roll Cab or similar type roll cart with at least 5 drawers- *no top chests allowed without instructor permission.*
  - 40” width

SPECIAL SUGGESTIONS: (none required-but highly recommended)

- Oil filter wrenches
- Flat jaw vise grip set
- Tire gauge/inflator
- Metric hex drive socket set- 4mm thru 10mm
- Metric and fractional hex/allen wrenches
- Ratcheting metric wrenches-10mm thru 19mm
- Fractional 1/2” drive shallow impact socket set 6pt -3/8” thru 1-1/8”
- 3/8” drive inch-pound torque wrench