

# Diesel Technology Tool List

The following items and tools are required so that you will have a basic amount of equipment to enter your future vocation.

We have special arrangements for the purchase of the required tools with Snap-On, and the local NAPA store (all tools are professional quality and carry a lifetime guarantee). You can write to the address below for details. Please specify which brand(s) you are interested in.

SUNY Morrisville  
School of Agriculture and Natural Resources  
Agricultural Engineering Tool list  
Marshall Hall  
Morrisville, NY 13408

- One (1) pair of safety glasses (clear lenses) to be worn during lab periods. Please note that this is a New York State Safety regulation which will be enforced starting the first day of classes.
- Leather work shoes (no athletic shoes) and clothes suitable for a diesel shop environment. Since a large portion of your time will consist of actual mechanical work, these are required for your protection.
- 1 set of ear plugs/hearing protection
- Pair of leather welding gloves
- Flashlight
- Tool box (Lockable tool storage cabinet with wheels)
- Socket sets:
  - 1/4" drive, 7/32" to 1/2" and 5mm to 13mm
  - 3/8" drive, 3/8" to 13/16" and 9mm to 19mm
  - 1/2" drive, 3/8" to 1-1/4" and 17mm to 30mm
- Socket adapters: 1/2" to 3/8", 3/8" to 1/2", 3/8" to 1/4"
- Socket drivers:
  - Ratchets: 1/4", 3/8", 1/2"
  - Breaker Bar: 1/2" others optional
  - Flex Handles: 3/8" and 1/2"
  - Extensions: 3" and 6" all drives (1/4", 3/8", 1/2")
- Sparkplug sockets: 5/8" and 13/16"
- Torx drivers:
  - 1 set male 8T to 60T
  - 1 set female 8T to 50T
- Wrenches:
  - Combination Wrenches: 1/4" to 1 1/4" and 5mm to 22mm
  - Flare Nut Wrenches: 3/8" to 3/4" 7mm to 21mm
  - Hex Wrenches (Allen): 5/64" to 3/8" and 1.25 to 10mm (socket type recommended)
- Screwdrivers:
  - Phillips: #1 and #2
  - Flat Blade: 1/8" x 4", 1/4" x 6", 5/16" x 8", 3/8" x 12", 5/16" x 1-3/4" or 2"
- Punch and chisel set
- Rolling Wedge Bar (Lady Slipper)
- 6" rule
- Tape Measure
- Hack saw with blades

- Files: Round and Flat
- Pliers:
  - Common slip-joint, needle nose, locking
  - (visegrip), arc joint (water pump), 6" or
  - 7" diagonal cutters, internal and external snap ring
- Hammers:
  - 1 lb. 2 lb. ball peen and soft face hammer
  - Dead Blow - optional
- Pipe Wrench
- Chain Wrench
- Gasket scraper
- 1" putty knife
- Feeler gauge
- Soldering Gun/Iron
- Wire Crimp/Stripping Pliers
- Digital Multi-meter: With ability to measure volts, ohms, amperage, frequency, duty cycle & infrared temperatures.