



## Diesel Technology

### Tools Required First Day of Classes

Estimated Cost:\$7,210-\$8,710

Quantity	Description
<b>Program Required Tools</b>	
1	Rollaway tool cabinet with locking drawers (6 drawer minimum, 5" wheels minimum, minimum size 28"W x 19"D x 42"H).
1	Top tool chest with locking drawers (minimum size 26"W x 15"D x 17"D).
<b>1/4" Drive Set – To Include:</b>	
1 set	6 point sockets (10 sockets) (3/16" through 9/16")
1	Universal joint
1	1 1/4" extension
1	2" extension
1	4" extension
1	6" extension
1	8" extension
1	11" extension
1	5" Ratchet
1 set	6 point sockets (10 sockets) (3/16" through 9/16")-Deep
1	Driver handle
1 set	6 point metric (12 sockets) (5 mm through 15 mm) with 5.5 mm
1 set	6 point deep metric (12 sockets) (5 mm through 15 mm) with 5.5 mm
<b>3/8" Drive Set – To Include:</b>	
1 set	6 point sockets (11 sockets) (1/4" through 7/8")
1	Universal joint
1	1 1/2" extension
1	3" extension
1	4" extension
1	6" extension
1	8" extension
1	11" extension
1	8" Ratchet
1 set	6 point deep sockets (11 sockets) (1/4" through 7/8")
1 set	6 point metric sockets (12 sockets) (8mm through 19mm)
1 set	6 point deep metric sockets (12 sockets) (8mm through 19mm)

- 1 set     Metric hex bit sockets (11 pieces) 4mm-14mm
- 1     Torx (12 piece) socket set – T8 through T55
- 1 set     Standard hex bit sockets (12 pieces) 1/16" – 3/8"
- 1     Spark plug socket (5/8")
- 1     Spark plug socket (13/16")

**1/2" Drive Set – To Include:**

- 1 set     12 point sockets (15 sockets) (3/8" through 1 1/4")
- 1 set     12 point metric sockets (13 piece) (12mm through 24mm)
- 1     4" to 6" extension
- 1     11" extension
- 1     18" to 20" flex handle
- 1     Universal joint
- 1     Ratchet (reversible)
- 1 set     1/2" drive deep impact sockets (6 point) (1/2" through 1 1/4")

**Combination Wrench Set**

- 1 set     Long combination wrench set (17 wrenches) (1/4" through 1 1/4")
- 1     Adapter (3/8" female by 1/2" male)
- 1     Adapter (1/2" female by 3/4" male)
- 1     Adapter (1/4" female by 3/8" male)
- 1     Adapter (3/8" female by 1/4" male)
- 1     Adapter (3/4" female by 1/2" male)
- 1     Vernier caliper dial type (5" to 6" by thousands)
- 1     Fluke 179 meter or Fluke brand equivalent (must include temperature probe)
- 1     Micrometer (0" to 1")
- 1     Soldering Iron (50 Watt minimum)
- 1     Pipe wrench (16")
- 1     Tire PSI Gauge
- 1     Tire air chuck
- 1     Dial indicator set (no digital)
- 1     Tire valve core remover
- 1     12" hacksaw
- 1     Putty Knife/Scraper
- 1     6" US/Met pocket ruler with T bar, stainless steel
- 1     Tread Depth Gauge
- 1     Tape Measure 25ft
- 1 set     Line wrenches (6 point) (10 wrenches, 1/4" through 13/16")
- 1 set     Line wrenches (6 point) (9mm through 21mm)
- 1     Adjustable wrench (12")
- 1     Door Panel Tool
- 1     Coil-on Spark Plug Tester

- 1 R-134a Gauge manifold set with 72" hoses with manual tap ends on the hoses
- 1 Long combination metric wrench set (17 wrenches) (8mm through 24mm)

#### **Screwdriver Set:**

- 1 set Standard tip (1/4" x 2", 3/16" x 3", 1/4" x 4", 1/8" x 6", and 3/8" x 8")
- 1 set Phillips tip (#1, #2, #3 and stubby #2)
- 1 Ratcheting Screwdriver

#### **Hammers:**

- 1 Ball peen hammer (16 oz.)
- 1 Ball peen hammer (32 oz.)
- 1 No bounce hammer (24 oz and 48 oz)

#### **Pliers:**

- 1 8" slip joint pliers
- 1 Diagonal cutting pliers (7" minimum)
- 1 10" channel lock pliers
- 1 7" needle nose pliers
- 1 Terminal crimp and wire cutter
- 1 10" grip pliers with curved jaws
- 1 Snap ring pliers (90 degree with dimples, 3/32 wide angle tip, 1/8 thick end (approximately 8 1/2 inches long)
- 1 set Minimum 5 piece snap ring pliers set (internal/external)

#### **Chisel and Punch Sets:**

- 1 set Chisels (5/16", 3/8", and 1/2")
- 1 set Starter punches (3/32", 1/8", and 5/32")
- 1 set Pin punches (3/32", 1/8", and 5/32")
  - 1 Center punch (6")
  - 1 8" Brass drift punch
  - 1 20" Oval Bearing Race Punch
  - 1 Punch – long stock 3/4" x 3/8" tip (15" long)
  - 1 Bushing Cutter

#### **Pry Bars:**

- 1 Roll head – line-up pry bar (5/16" by 6"), (1/2" x 12"), (5/8" by 16"), (1 1/16" by 20")
- 1 30" Die Setter Pry Bar
- 1 set 4 piece pry bar with plastic handle (8-24")

#### **Battery Tools:**

- 1 Battery terminal and cable brush
- 1 Wire brush

#### **Miscellaneous Tools:**

- 1 Pair of clear safety glasses

- 1 Leather Welding gloves (SMAW) economy grade
- 1 set Hex keys (13 piece with long handles) (1/20" through 3/8")
- 1 set 9 piece metric hex key set 1.5 mm through 10 mm
- 1 set O-ring pick set (4 piece)
- 1 Circuit tester (power-on)
- 1 Blow-gun, rubber tipped
- 1 Gasket scraper
- 1 Mill file (10") with handle
- 1 Rat tail file (8") with handle
- 1 Mill file (8") with handle
- 1 Square file (6") with handle
- 1 Telescoping flex magnet (16")
- 1 Inspection mirror
- 1 set Feeler gauges (.0015" through .035")
- 1 set Feeler gauges bent blade(.006" through .030")
- 1 Adjustable utility knife
- 1 Adapter (1/2" female by 3/8" male)

**Supplies required for the Related Welding Course:**

- 1 Welding helmet with #10 lens. Fixed or lift front. Can be auto darkening. Extra lenses. No sharing of welding hoods.
- 1 Welding cap
- 1 Welding cutting goggles with #5 lens. Green-2"x4 1/4" fixed front or auto welding hood that goes to a shade 4 or 5 lens for cutting.
- 1 Clear safety glasses
- 1 Ear plugs
- 1 Standard pliers
- 1 Mig welding or needle nose pliers
- 1 Shielded metal arc leather and Gas metal arc leather welding gloves
- 1 Chipping hammer
- 1 Carbon steel wire brush
- 1 wheel attachment. You can purchase an inexpensive grinder for
- 1 Pocket flashlight
- 1 Bucket or bag to haul supplies in. No lockers available in welding lab area.

**PPE required for Related Welding Course:**

- 1 100% cotton long sleeve work shirt. To be worn under your flame-resistant jacket. NO HOODIES
- 1 Flame resistant jacket 100% cotton
- 1 Fitted jeans with no holes or frays
- 1 Leather work boots can be steel toed. No sneakers

**Optional Tools**  
**(Not Required by Program)**

**Option #1**

- 1 1/2" impact wrench
- 1 set Impact sockets (6 point, 7/16" through 1 1/4")
- 1 3/8" drive air ratchet
- 1 Torque wrench (1/2" drive, 250 lbs.)

**Option #2**

- 1 3/8" drive universal flex sockets (6 point) (7 sockets, 3/8" through 3/4")
- 1 Filter wrench (12")
- 1 Straight flute screw extractor set (5 piece) (#1 through #5)

**Option #3**

- 1 3/4" drive sockets (12 point) (17 sockets, 7/8" through 2")
- 1 3/4" extension (8" long) set
- 1 3/4" extension (16" long) set
- 1 3/4" ratchet (20" to 24" long) set
- 1 3/4" flex handle (20" to 24" long) set
- 1 Pry (pinch) bar (3/4" x 15/16" wide) (18" to 20" long) 2420A
- 1 High speed drill bit set (1/16" through 1/2" reduced shank DBTR129

Request tool vendor to deliver tools to Northeast  
Community College by August 18, 2025, first day of  
classes.