# Diesel Technology Program
## Tool List
**Tools required first day of classes**
Estimated Cost: $5,000-$6,250

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Description</th>
<th>Tool Part No.</th>
<th>Price</th>
<th>Check-In</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Rollaway tool cabinet with locking drawers (6 drawer minimum, 5” wheels minimum, minimum size 28”W x 19”D x 42”H).</td>
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<tr>
<td>1</td>
<td>Top tool chest with locking drawers (minimum size 26”W x 15”D x 17”D).</td>
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### 1/4” Drive Set – To Include:
- 1 set 6 point sockets (10 sockets) 3/16” through 9/16”
- 1 Universal joint
- 1 2” extension
- 1 6” extension
- 1 5” Ratchet

### 3/8” Drive Set – To Include:
- 1 set 12 point sockets (10 sockets) (5/16” through 7/8”)
- 1 Universal joint
- 1 2” to 3” extension
- 1 6” extension
- 1 12” extension
- 1 8” ratchet
- 1 15” to 17” speed handle
- 1 8” to 10” breaker bar
- 1 set 12 point deep sockets (9 sockets) (3/8” through 7/8”)
- 1 Spark plug socket (5/8”)
- 1 Spark plug socket (13/16”)

### 1/2” Drive Set – To Include:
- 1 set 12 point sockets (14 sockets) (7/16” through 1 1/4”)
- 1 2” extension
- 1 4” to 6” extension
- 1 18” to 20” flex handle
- 1 Universal joint
- 1 Ratchet (reversible)
- 1 set 1/2” drive deep sockets (6 point) (7/16” through 1 1/4”)

### Combination Wrench Set
- 1 set Long combination wrench set (16 wrenches) (1/4” through 1 1/4”)
  (12 point box end except the 1/4” – 6 point)

### 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, and stubby #2)
- 1 Heavy duty screwdriver (10” blade square shank)

### Hammers
- 1 Ball peen hammer (48 oz.)
- 1 Ball peen hammer (24 oz.)
- 1 No bounce hammer (32 oz.)

### Pliers
- 1 6” combination pliers
- 1 Diagonal cutting pliers (7” minimum)
- 1 Long nose pliers with cutter
- 1 Terminal crimp and wire cutter
- 1 Vise grip pliers with curved jaws (10”) (Vice grip brand)
1 Snap ring pliers (90 degree with dimples, 3/32 wide angle tip, 1/8 thick end (approximately 8 1/2 inches long)
1 12" Channel Lock

**Chisel and Punch Sets**
1 set Chisels (5/16", 3/8", and 1/2")
1 Round nose cape chisel (5/16")
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 Brass drift punch (about 13/16" diameter X 12" long)
1 Tapered drift punch (12")
1 Punch – long stock ¾" x 3/8" tip (15" long)
1 Punch – short stock 5/8" x 5/16" tip (7" long)
1 Punch – short stock ¾" x 3/8" tip (7" long)
1 Bushing Cutter

**Pry Bars**
1 Roll head – line-up pry bar (1/2" x 12")
1 Roll head – line-up pry bar (5/8" by 16")

**Battery Tools**
1 Battery terminal and cable 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) (3/32" through 5/8")
1 Hand scratch wire brush
1 Double pointed scriber (O-ring pick)
1 Circuit tester (power-on)
1 Lever blow-gun (rubber tipped with ¼" female NPT)
3 DCP7 fittings (Air)
1 Long blade scraper
1 Mill file (10")
1 Rat tail file (10")
1 Adjustable wrench (8")
1 Adjustable wrench (12")
1 Telescoping flex magnet (16")
1 Spark plug gauge (.035" through .085")
1 set Feeler gauges (.0015" through .025")
1 Adjustable utility knife
1 Adapter (1/2" female by 3/8" male)
1 Adapter (3/8" female by ½" male)
1 Vernier caliper dial type (5" to 6" by thousands)
1 Soldering gun kit (450 watt)
1 Test meter (Fluke 179 only)
1 Micrometer (0" to 1")
1 Pipe wrench (16")
1 Tire PSI Gauge
1 Tire air chuck
1 set Metric combination long wrenches (10 mm - 19 mm)
1 set Metric 3/8" drive sockets (8 mm - 19 mm)
1 set Metric 3/8" drive deep sockets (8 mm - 19 mm)
1 set Metric ½" drive 12 point sockets (10 mm - 21mm)
1 Dial indicator set
1 13 watt or brighter fluorescent work light, oil and water resistant with at least a 25 ft. cord (3 terminal plug)
1 R-134a Gauge manifold set with 72” hoses with manual tap ends on the hoses
### Optional Tools
(Not Required by Program)

<table>
<thead>
<tr>
<th>Option #1</th>
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<tbody>
<tr>
<td>1 1/2&quot; impact wrench</td>
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<tr>
<td>1 set Impact sockets (6 point, 7/16&quot; through 1 1/4&quot;)</td>
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<tr>
<td>1 3/8&quot; drive air ratchet</td>
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<tr>
<td>1 Torque wrench (1/2&quot; drive, 250 lbs.)</td>
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<thead>
<tr>
<th>Option #2</th>
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<tbody>
<tr>
<td>1 3/8&quot; drive universal flex sockets (6 point) (7 sockets, 3/8&quot; through 3/4&quot;)</td>
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<tr>
<td>1 Filter wrench (12&quot;)</td>
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<tr>
<td>1 Snap ring pliers with straight tips (internal/external, approximately .070&quot; tips)</td>
</tr>
<tr>
<td>1 Snap ring pliers with straight tips (internal/external, approximately .038&quot; tips)</td>
</tr>
<tr>
<td>1 Straight flute screw extractor set (5 piece) (#1 through #5)</td>
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<tr>
<td>1 Adapter (1/2&quot; female by 3/4&quot; male)</td>
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<tr>
<td>1 Adapter (1/4&quot; female by 3/8&quot; male)</td>
</tr>
<tr>
<td>1 Adapter (3/8&quot; female by 1/4&quot; male)</td>
</tr>
<tr>
<td>1 Adapter (3/4&quot; female by 1/2&quot; male)</td>
</tr>
<tr>
<td>1 set Line wrenches (6 point) (10 wrenches, 1/4&quot; through 13/16&quot;)</td>
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<tr>
<td>1 set Short combination wrenches (7 wrenches) (3/8&quot; through 3/4&quot;)</td>
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<tr>
<th>Option #3</th>
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<tbody>
<tr>
<td>1 set ¾&quot; drive sockets (12 point) (17 sockets, 7/8&quot; through 2&quot;)</td>
</tr>
<tr>
<td>1 ¾&quot; extension (8&quot; long)</td>
</tr>
<tr>
<td>1 ¾&quot; extension (16&quot; long)</td>
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<tr>
<td>1 ¾&quot; ratchet (20' to 24' long)</td>
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<tr>
<td>1 ¾&quot; flex handle (20' to 24' long)</td>
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<tr>
<td>1 Pry (pinch) bar (3/4&quot; x 15/16&quot; wide) (18&quot; to 20&quot; long)</td>
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<tr>
<td>1 set ¼&quot; drive Torx socket wrenches (5 piece – T8, T10, T15, T20, and T25)</td>
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<tr>
<td>1 set 3/8&quot; drive Torx socket wrenches (6 piece – T27, T30, T40, T45, T50, and T55)</td>
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<tr>
<td>1 High speed drill bit set (1/16&quot; through ¾&quot; reduced shank)</td>
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</tbody>
</table>

### TOTAL COST

**NOTE:** Tools need to be ordered by mid-June to guarantee delivery by August.

I understand tools need to be ordered by mid-June for guaranteed delivery by first day of class.

______________________________
Student Signature                  Date