Diesel Powered Equipment Technology
The Diesel program provides the student with the technical instruction and skill development to enable students to enter employment in truck, construction, agricultural equipment, and other related fields as technicians. By working in the fuel injection lab and on actual diesel powered equipment, students are well prepared to enter the workforce after graduation. The Diesel Powered Equipment Technology program is approved by the National Institute for Automotive Service Excellence (ASE).

### Course Outline
20 months/2,160 Clock Hours

- Tools and Fasteners
- Basic Diesel Theory
- Drive Trains
- Lubrication System
- Fuel Systems
- Electrical/Electronics
- ASE Test Preparation
- Welding and Cutting
- Safety and Orientation
- Brakes
- Cooling Systems
- Drive Trains
- Hydraulics
- Electronic Engine Controls
- Diesel Engines
- Cylinder Blocks
- Cylinder Head and Valve Train
- Suspension and Steering
- Heating & Air Conditioning

### Diploma Offered and Hours Needed

<table>
<thead>
<tr>
<th>Diploma Offered</th>
<th>Hours Needed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diesel Technician</td>
<td>2160</td>
</tr>
</tbody>
</table>

### Certificates Offered and Hours Needed

<table>
<thead>
<tr>
<th>Certificate Offered</th>
<th>Hours Needed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diesel Technician Assistant</td>
<td>1728</td>
</tr>
<tr>
<td>Diesel Technician Apprentice</td>
<td>1286</td>
</tr>
<tr>
<td>Diesel Engine Assembler</td>
<td>864</td>
</tr>
<tr>
<td>Preventive Maintenance Service Technician</td>
<td>432</td>
</tr>
</tbody>
</table>

### Typical Job Opportunities

- Heavy Vehicle Repairer
- Engine Repairer
- Accessories Installer
- Brake Mechanic
- Drive Line Repairer

Graduates of the program will have practical experience in the repair and maintenance of engines, fuel systems, electrical systems, steering systems, brake systems, and heating, ventilation, and air conditioning systems. Students receive instruction in diagnosing problems, systems analysis, disassembly, replacing defective parts, and reassembling.

### 2012 Graduation Rate 83%
2012 Placement Rate 80%

The average starting wage for this program's graduates in 2012 was $12.37 per hour.

Class meets Monday through Friday from 8:00 a.m. to 2:30 p.m.

### Total Program Cost

<table>
<thead>
<tr>
<th>Cost Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition and Technology Access Fee (2160 clock hours) &amp; graduation supplies</td>
<td>$5,245.00</td>
</tr>
<tr>
<td>Books and Supplies (Estimated)</td>
<td>$637.21</td>
</tr>
<tr>
<td>Estimated Off-Campus Expenses - Tools</td>
<td>$2,300.00</td>
</tr>
<tr>
<td>Graduation supplies are required in your last trimester at an estimated cost of:</td>
<td>$35.00</td>
</tr>
<tr>
<td><strong>TOTAL PROGRAM COST</strong></td>
<td><strong>$8,217.21</strong></td>
</tr>
</tbody>
</table>

January 23, 2013

All costs subject to change without notice.
## First Trimester Expenses

<table>
<thead>
<tr>
<th>Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition (432 clock hours)</td>
<td>$982.00</td>
</tr>
<tr>
<td>Technology Access Fee</td>
<td>$67.00</td>
</tr>
<tr>
<td><strong>Total Tuition and Fees</strong></td>
<td><strong>$1,049.00</strong></td>
</tr>
</tbody>
</table>

### Books

<table>
<thead>
<tr>
<th>ISBN</th>
<th>Estimated Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>9781285473932</td>
<td>$594.21</td>
</tr>
<tr>
<td>9781449642693</td>
<td>$43.00</td>
</tr>
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</table>

**Students are not required to purchase books from the school bookstore.**

### Estimated Off-Campus Expenses

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Estimated Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hearing Protection (per OSHA requirements)</td>
<td></td>
</tr>
<tr>
<td>Belt (black or brown)</td>
<td></td>
</tr>
<tr>
<td>Tech. jacket dark navy blue with pocket</td>
<td></td>
</tr>
<tr>
<td>Industrial work pants dark navy blue</td>
<td></td>
</tr>
<tr>
<td>Steel Toe boots - oil resistant</td>
<td></td>
</tr>
<tr>
<td>Shirts industrial long sleeve dark navy blue</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL Off Campus Cost (Estimated)</strong></td>
<td><strong>$400.00</strong></td>
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</table>

## Second Trimester Expense

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</tr>
<tr>
<td><strong>Total Second-Fifth Trimester Expenses</strong></td>
<td><strong>$1,049.00</strong></td>
</tr>
</tbody>
</table>

### Estimated Off-Campus Expenses - Tools are required for the first day of class in the 2nd Trimester

#### Socket Set 3/8 Drive:
- 3/8" - 3/4" U.S. Standard Depth (12 Point)
- 3/8" - 3/4" U.S. Deep (6 Point)
- 10mm - 19mm Metric Standard Depth (6 Point)
- 10mm - 19mm Metric Deep (6 Point)
- Extensions - Short Medium, and Long
- Ratchet Handle
- Universal Joint
- 2-Flare Nut Wrench Sets
- 4 - Screwdrivers Phillips

#### Punches
- Pin 3/16" - 3/8"
- Starter 3/16" - 3/8"
- Aligning Punch Set
- Brass Punch
- Center Punch
- Pliers
- Adjustable Joint

#### Socket Set 1/4 Drive:
- 3/16" - 1/2" U.S. Standard Depth
- 3/16" - 1/2" U.S. Deep
- 4mm - 13mm Metric Standard Depth
- 4mm - 13mm Metric Deep
- Extensions - Short, Medium, and Long
- Ratchet Handle
- Universal Joint
- Proto Tools, Black Hawk.
- 12" - #3

#### Pliers
- 1" - 2#
- 6" - #1, #2
- Needle Nose
- Side Cutters
- Slip-joint

#### Combination Wrenches
- Standard (3/8" - 1 1/4"

#### Breaker Bar
- 1 - Scraper 1" wide or larger
- Metric (6mm - 19mm) (up to 24mm optional)

#### Extensions - Short, Medium and Long
- 5 - Screwdrivers Torx
- 5 - Screwdrivers Blade
- 1", 6", 9", 12", Offset

#### Ratchet Handle
- 1 - Tape Measure (12"

#### Universal Joint
- 1 - Hack Saw
- 1 - Cold Chisel
- Metric (2mm - 12mm)
- 1/2" Edge
- 5/8" Edge
- 3/4" Edge
- 3/8 Drive
- 1/2 Drive
- 4 mm - 13 mm Metric
- 13 mm - 32 mm
- 13 mm - 32 mm Deep
- Standard (.050" - 3/8"

#### Tools
- Lady's Foot Pry Bar
- Tape Measure (12"
- Cold Chisel
- 3/8 Drive
- 1/2 Drive
- 4 mm - 13 mm Metric
- 13 mm - 32 mm
- Standard (.050" - 3/8"
- Adjustable 3/4" capacity length 6"
- Adjustable 1 1/8" capacity length 10"

## Total Second Trimester Expenses

**$2,949.00**

## Third, Fourth and Fifth Trimester Expense

<table>
<thead>
<tr>
<th>Description</th>
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</tr>
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<tr>
<td>Tuition (432 clock hours)</td>
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**Tools must be of industrial quality.**

The following brands have tools that meet industrial standards:

- Sears Roebuck Co.
- Western Auto
- Snap On
- SK or Mac Tools

## Total Third Trimester Expenses

**$2,949.00**
Diesel Powered Equipment Technology

Program Mission

The Diesel Powered Equipment Technology programs’ mission is to:
> Provide competency-based training through traditional learning instructional delivery systems of the highest quality that will qualify individuals for employment and/or advancement in jobs.
> Provide high quality training and retraining of employed workers.
> Provide high quality training that is economical and accessible to all residents of Tennessee, thereby contributing to the economic and community development of the communities we serve.