Northwest Louisiana Technical Community College

Diesel Powered Equipment Technology

Program Description & Curriculum
The purpose of this program is to provide specialized classroom instruction and practical shop experience to prepare individuals for employment as job entry-level diesel powered equipment technicians. The program prepares the individual to select, safely use, and maintain hand and power tools, jacks, and hoisting equipment. The content includes, but is not limited to, disassembling engines and replacing parts, fuel injection systems, oil and water pumps, electrical systems, steering and suspension systems, brake systems, drive train, and chassis.

Degrees/Certificates
Technical Diploma (TD)
Certificate of Technical Studies (CTS)

Available degrees and certificates may vary at each campus. Check with your local campus for more information.

CIP 470605

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Lecture/Lab Hours</th>
<th>Credit Hours</th>
<th>Clock Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DPET 1120</td>
<td>Safety Skills &amp; Introduction to Diesel</td>
<td>1/2</td>
<td>3</td>
<td>105</td>
</tr>
<tr>
<td>DPET 1130</td>
<td>Diesel Engine Parts Identification &amp; Operating PRI</td>
<td>2/2</td>
<td>4</td>
<td>120</td>
</tr>
<tr>
<td>DPET 1140</td>
<td>Engines I</td>
<td>1/2</td>
<td>3</td>
<td>105</td>
</tr>
<tr>
<td>DPET 1240</td>
<td>Diesel Engine Fuel Systems</td>
<td>1/2</td>
<td>3</td>
<td>130</td>
</tr>
<tr>
<td>DPET 1210</td>
<td>Basic Diesel Electrical Systems</td>
<td>2/2</td>
<td>4</td>
<td>120</td>
</tr>
<tr>
<td>DPET 1231</td>
<td>Diesel Engine Control Systems</td>
<td>1/1</td>
<td>2</td>
<td>60</td>
</tr>
<tr>
<td>DPET 1150</td>
<td>General Engine Diagnostics</td>
<td>1/2</td>
<td>3</td>
<td>150</td>
</tr>
<tr>
<td>CTS</td>
<td>Diesel Engine Technician</td>
<td></td>
<td>22</td>
<td>790</td>
</tr>
<tr>
<td>DPET 1310</td>
<td>Introduction to Power Trains</td>
<td>1/1</td>
<td>2</td>
<td>60</td>
</tr>
<tr>
<td>DPET 1320</td>
<td>Transmissions</td>
<td>1/2</td>
<td>3</td>
<td>105</td>
</tr>
<tr>
<td>DPET 2110</td>
<td>Basic Hydraulics</td>
<td>1/1</td>
<td>2</td>
<td>150</td>
</tr>
<tr>
<td>DPET 2130</td>
<td>Brakes</td>
<td>1/3</td>
<td>4</td>
<td>150</td>
</tr>
<tr>
<td>DPET 2210</td>
<td>Fundamentals of Suspension</td>
<td>1/2</td>
<td>3</td>
<td>75</td>
</tr>
<tr>
<td>DPET 2220</td>
<td>Air Conditioning</td>
<td>2/2</td>
<td>4</td>
<td>180</td>
</tr>
<tr>
<td>DPET 2240</td>
<td>Diesel Preventive Maintenance</td>
<td>1/2</td>
<td>3</td>
<td>150</td>
</tr>
<tr>
<td>JOBS 2450</td>
<td>Job Seeking Skills</td>
<td>2/0</td>
<td>2</td>
<td>30</td>
</tr>
<tr>
<td>TD</td>
<td>Diesel Powered Equipment Technician</td>
<td></td>
<td>45</td>
<td>1690</td>
</tr>
<tr>
<td>CSRV 1000</td>
<td>Customer Service</td>
<td>3/0</td>
<td>3</td>
<td>45</td>
</tr>
<tr>
<td>CSRV 2000</td>
<td>Customer Service &amp; Sales</td>
<td>3/0</td>
<td>3</td>
<td>45</td>
</tr>
<tr>
<td>ENTP 1000</td>
<td>Foundations of Entrepreneurship</td>
<td>3/0</td>
<td>3</td>
<td>45</td>
</tr>
</tbody>
</table>

Optional Elective
With approval from the Chief Academic Officer/designee, the following courses may be substituted for any of the above course requirements.

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Lecture/Lab Hours</th>
<th>Credit Hours</th>
<th>Clock Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DPET 2991</td>
<td>Special Projects I</td>
<td>0/1</td>
<td>1</td>
<td>30</td>
</tr>
<tr>
<td>DPET 2993</td>
<td>Special Projects II</td>
<td>0/2</td>
<td>2</td>
<td>60</td>
</tr>
<tr>
<td>DPET 2995</td>
<td>Special Projects III</td>
<td>0/3</td>
<td>3</td>
<td>90</td>
</tr>
<tr>
<td>DPET 2996</td>
<td>Special Projects IV</td>
<td>3/0</td>
<td>3</td>
<td>45</td>
</tr>
<tr>
<td>DPET 2997</td>
<td>Practicum</td>
<td>0/3</td>
<td>3</td>
<td>135</td>
</tr>
<tr>
<td>DPET 2999</td>
<td>Cooperative Education</td>
<td>0/3</td>
<td>3</td>
<td>135</td>
</tr>
<tr>
<td>DPET 1251</td>
<td>Alternative Fuel Systems</td>
<td>1/1</td>
<td>2</td>
<td>45</td>
</tr>
<tr>
<td>DPET 2120</td>
<td>Advanced Hydraulics</td>
<td>1/2</td>
<td>3</td>
<td>105</td>
</tr>
<tr>
<td>DPET 2231</td>
<td>Welding</td>
<td>1/1</td>
<td>2</td>
<td>60</td>
</tr>
</tbody>
</table>