

# Northwest Louisiana Technical 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)

Technical Competency Area (TCA)

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

**CIP 470605**

<b>Diesel Powered Equipment Technology CURRICULUM</b>				
Course #	Course Title	Lecture/ Lab Hours	Credit Hours	Clock Hours
ORNT 1000	Freshman Seminar	1/0	1	15
DPET 1120	Safety Skills & Introduction to Diesel	1/ 2	3	105
DPET 1130	Diesel Engine Parts Identification & Operating PRI	2/2	4	120
DPET 1140	Engines I	1/ 2	3	105
DPET 1141	Engines II	1/ 2	3	105
DPET 1240	Diesel Engine Fuel Systems	1/ 2	3	90
CPTR 1000	Introduction to Computers	1/1	2	45
DPET 1210	Basic Diesel Electrical Systems	2/2	4	120
DPET 1220	Advanced Diesel Electrical Systems	1/ 2	3	105
DPET 1231	Diesel Engine Control Systems	1/1	2	60
DPET 1150	General Engine Diagnostics	1/ 2	3	90
DPET 1310	Introduction to Power Trains	1/1	2	60
DPET 1320	Transmissions	1/ 2	3	105
DPET 1330	Differentials	1/2	3	75
DPET 2110	Basic Hydraulics	1/1	2	60
DPET 2130	Brakes	1/3	4	150
DPET 2140	Fundamentals of Steering	1/ 2	3	75
DPET 2210	Fundamentals of Suspension	1/ 2	3	75
DPET 2220	Air Conditioning	2/2	4	120
DPET 2240	Diesel Preventive Maintenance	1/ 2	3	105
JOBS 2450	Job Seeking Skills	2/0	2	30
<b>TD – Diesel Powered Equipment Technician</b>			<b>60</b>	<b>1815</b>
<i>Optional Elective</i>				
CSRV 1000	Customer Service	3/0	3	45
CSRV 2000	Customer Service & Sales	3/0	3	45
ENTP 1000	Foundations of Entrepreneurship	3/0	3	45
<i>With approval from the Chief Academic Officer/designee, the following courses may be substituted for any of the above course requirements.</i>				
DPET 2991	Special Projects I	0/1	1	30
DPET 2993	Special Projects II	0/2	2	60

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DPET 2995	Special Projects III	0/3	3	90
DPET 2996	Special Projects IV	3/0	3	45
DPET 2997	Practicum	0/3	3	135
DPET 2999	Cooperative Education	0/3	3	135
DPET 1251	Alternative Fuel Systems	1/1	2	45
DPET 2120	Advanced Hydraulics	1/ 2	3	105
DPET 2231	Welding	1/1	2	60
<i>Below are Certificate Exit Levels</i>				
ORNT 1000	Freshman Seminar	1/0	1	15
DPET 1120	Safety Skills & Introduction to Diesel	1/ 2	3	105
DPET 2220	Air Conditioning	2/2	4	120
<b>TCA – Air Conditioning Technician</b>			<b>8</b>	<b>240</b>
ORNT 1000	Freshman Seminar	1/0	1	15
DPET 1120	Safety Skills & Introduction to Diesel	1/ 2	3	105
DPET 2140	Fundamentals of Steering	1/ 2	3	75
DPET 2210	Fundamentals of Suspension	1/ 2	3	75
<b>TCA – Steering and Suspension Technician</b>			<b>10</b>	<b>270</b>
ORNT 1000	Freshman Seminar	1/0	1	15
DPET 1120	Safety Skills & Introduction to Diesel	1/ 2	3	105
DPET 2110	Basic Hydraulics	1/1	2	60
DPET 2130	Brakes	1/3	4	150
<b>TCA – Brake Technician</b>			<b>10</b>	<b>330</b>
ORNT 1000	Freshman Seminar	1/0	1	15
DPET 1120	Safety Skills & Introduction to Diesel	1/ 2	3	105
DPET 1130	Diesel Engine Parts Identification & Operating PRI	2/2	4	120
DPET 1140	Engines I	1/ 2	3	105
<b>TCA – Diesel Engine Technician Apprentice</b>			<b>11</b>	<b>345</b>
ORNT 1000	Freshman Seminar	1/0	1	15
DPET 1120	Safety Skills & Introduction to Diesel	1/ 2	3	105
DPET 1310	Introduction to Power Trains	1/1	2	60
DPET 1320	Transmissions	1/ 2	3	105
DPET 1330	Differentials	1/2	3	75
<b>TCA – Drive Train Technician</b>			<b>12</b>	<b>360</b>
ORNT 1000	Freshman Seminar	1/0	1	15
DPET 1120	Safety Skills & Introduction to Diesel	1/ 2	3	105
DPET 1130	Diesel Engine Parts Identification & Operating PRI	2/2	4	120
DPET 1140	Engines I	1/ 2	3	105
DPET 1141	Engines II	1/ 2	3	105
DPET 1240	Diesel Engine Fuel Systems	1/ 2	3	90
CPTR 1000	Introduction to Computers	1/1	2	45
DPET 1210	Basic Diesel Electrical Systems	2/2	4	120
DPET 1220	Advanced Diesel Electrical Systems	1/ 2	3	105
DPET 1231	Diesel Engine Control Systems	1/1	2	60
DPET 1150	General Engine Diagnostics	1/ 2	3	90
<b>CTS – Diesel Engine Technician</b>			<b>31</b>	<b>960</b>