

# APPLIED ENGINEERING & TECHNOLOGIES

## DIESEL AND HEAVY EQUIPMENT TECHNOLOGY

### Diesel and Heavy Equipment Technology Degree - A60460

The Diesel and Heavy Equipment Technology curriculum is designed to provide individuals with the knowledge and skills needed to troubleshoot and repair medium- and heavy-duty vehicles.

The core course work includes the theory of operations, troubleshooting techniques, and repair procedures for engines, electrical, and hydraulic systems. Other courses cover transmissions, brakes, and steering/suspension. Additional related courses will be required.

Graduates of the curriculum should qualify for entry-level employment opportunities at businesses that repair medium- and heavy-duty vehicles. Entry and advancement levels depend on the amount of training completed, knowledge and ability levels, work performance, and ethics.

### Diesel and Heavy Equipment Technology Diploma - D60460

### Hydraulics, Engines, and Transmission Forklift Certificate - C60460BB

### Fuel Injection, Electrical, and Electronics Forklift Certificate - C60460BC

#### Program Sequence

##### First Semester

ELN 110	Survey of Electronics .....	3
ENG 110	Freshman Composition .....	3
TRN 110	Introduction to Transportation Technology.....	2
TRN 120	Basic Transportation Electricity.....	5
TRN 120A	Basic Transportation Electricity Lab.....	1
TRN 170	PC Skills for Transportation .....	2

##### Second Semester

HET 110	Diesel Engines .....	6
HET 233	Suspension and Steering .....	4
HYD 112	Hydraulics-Medium and Heavy Duty.....	2
MAT 110	Math Measurement and Literacy .....	3

##### Third Semester

HET 134	Diesel Fuel and Power System.....	3
TRN 140	Transportation Climate Control .....	2
	Work-Based Learning Elective.....	2

##### Fourth Semester

COM 120	Intro to Interpersonal Communication .....	3
HET 114	Power Trains .....	5
HET 231	Medium/Heavy Duty Brake Systems.....	2
HET 232	Medium/Heavy Duty Brake Systems Lab.....	1
HYD 134	Hydraulics/Hydrostatic Construction .....	4
PSY 118	Interpersonal Psychology .....	3

*Completes Hydraulics, Engines, and Transmission Forklift Certificate (C60460BB): HET 110, HET 114, HYD 112*

##### Fifth Semester

ELN 112	Diesel Electronics System .....	4
HET 125	Preventive Maintenance .....	2
HUM 121	The Nature of America .....	3
PME 211	Advanced Equipment Repair.....	4

*Completes Fuel Injection, Electrical, and Electronics Forklift Certificate (C60460BC): ELN 112, HET 134, TRN 120*

*Completes Diesel and Heavy Equipment Technology Diploma (D60460): ELN 112, ENG 110, HET 110, HET 114, HET 125, HET 134, HET 231, HET 232, HYD 112, HYD 134, PSY 118, TRN 110, TRN 120, TRN 120A, TRN 140, TRN 170*

##### Work-Based Learning Electives

(Select 2 hours from the following courses):

WBL 111	Work-Based Learning I.....	1
WBL 112	Work-Based Learning I.....	2
WBL 121	Work-Based Learning II.....	1

**Graduation Requirements .....69 Credit Hours**