

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

TRN 110	Intro to Transportation Tech	2
TRN 120	Basic Transportation Electricity	5
TRN 120A	Basic Transportation Electricity Lab	1
TRN 140	Transportation Climate Control	2
TRN 170	PC Skills for Transportation	2
ENG 110	Freshman Composition	3
Elective List I		2

Second Semester

HET 110	Diesel Engines	6
HET 233	Suspension and Steering	4
MAT 110	Math Measurement & Lit	3
Elective List II		2

Third Semester

Elective List III		2
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Fourth Semester

HET 114	Power Trains	5
HYD 134	Hyd/Hydrostatic Const.....	4
HET 231	Medium/Heavy Duty Brake System	2
HET 232	Medium/Heavy Duty Brake System Lab	1
COM 120	Interpersonal Communication	3
PSY 118	Interpersonal Psychology	3

Complete Hydraulics, Engines, and Transmission Forklift Certificate (C60460BB): Choose HYD 111 or HYD 112 + HET 110, HET 114

Fifth Semester

HET 125	Preventative Maintenance	2
HET 134	Mechanical Fuel Injection	3
PME 211	Advanced Equipment Repair	4

HUM 121	The Nature of America.....	3
Elective List I		4

Complete Fuel Injection, Electrical, and Electronics Forklift Certificate (C60460BC): Choose 4 hours from Elective List 1 + HET 134, TRN 120

Complete Diesel and Heavy Equipment Technology Diploma (D60460): Choose 4 hours from Elective List 1 and 2 hours from Elective List 2 + ENG 110, HET 110, HET 114, HET 125, HET 134, HET 231, HET 232, HYD 134, PSY 118, TRN 110, TRN 120, TRN 120A, TRN 140, TRN 170

Elective List I (Select 6 hours from the following courses):

ELN 110	Survey of Electronics	3
ELN 112	Diesel Electronics System	4
ELN 113	Electronic Fuel Injection	2
HET 115	Electronic Engines	3
HET 128	Medium/Heavy Duty Tune-up	2
HET 192	Selected Topics	2

Elective List II (Select 2 hours from the following courses):

HYD 110	Hydraulics/Pneumatics I	3
HYD 111	Mobile Hydraulic Systems	3
HYD 112	Hydraulics/Medium/Heavy Duty	2

Elective List III (Select 2 hours from the following courses):

WBL 111	Work-Based Learning I	1
WBL 112	Work-Based Learning I	2
WLD 112	Basic Welding Processes	2

Graduation Requirements 68 Credit Hours