

Diesel and Heavy Equipment Technology

The Diesel and Heavy Equipment Technology program prepares individuals for employment as entry-level transportation service technicians. The program provides an introduction to transportation industry careers and increases student awareness of the diverse technologies associated with this dynamic and challenging field. The degree program prepares individuals to apply technical knowledge and skills to repair, service, and maintain diesel engines in vehicles such as Heavy Duty Trucks over one ton classification, buses, ships, railroad locomotives, and equipment as well as stationary diesel engines in electrical generators and related equipment.

For specific information about potential positions and wages in diesel and heavy equipment employment, visit the Central Piedmont Career Coach website.

Diesel and Heavy Equipment Technology (A60460)

General Education Requirements

ENG 111	Writing and Inquiry	3.0
ACA 122	College Transfer Success	1.0
Select one of the following:		3.0
COM 110	Introduction to Communication	
	or COM 231 Public Speaking	
Select one of the following:		3.0
MAT 110	Mathematical Measurement and Literacy	
MAT 143	Quantitative Literacy	
MAT 152	Statistical Methods I	
MAT 171	Precalculus Algebra	
Select one of the following:		3.0
ART 111	Art Appreciation	
ART 114	Art History Survey I	
ART 115	Art History Survey II	
DRA 111	Theatre Appreciation	
HUM 120	Cultural Studies	
HUM 130	Myth in Human Culture	
MUS 110	Music Appreciation	
MUS 112	Introduction to Jazz	
PHI 215	Philosophical Issues	
PHI 240	Introduction to Ethics	
REL 110	World Religions	
Select one of the following:		3.0
ECO 251	Principles of Microeconomics	
ECO 252	Principles of Macroeconomics	
HIS 111	World Civilizations I	
HIS 112	World Civilizations II	
HIS 131	American History I	
HIS 132	American History II	
POL 120	American Government	
PSY 150	General Psychology	
SOC 210	Introduction to Sociology	

Major Requirements

TRN 110	Introduction to Transport Technology	2.0
TRN 120	Basic Transportation Electricity	5.0
TRN 140	Transportation Climate Control	2.0
HET 110	Diesel Engines	6.0
HET 114	Power Trains	5.0
HET 125	Preventive Maintenance (Major Others)	2.0

Major Others Requirements

Select 22 credits from the following:		22.0
ATT 150	Sustainable Transportation Technology	
TRN 170	Pc Skills for Transportation	
TRN 180	Basic Welding for Transportation	
HET 115	Electronic Engines	
HET 128	Medium/Heavy Duty Tune Up	
HET 230	Air Brakes	
HET 231	Medium/Heavy Duty Brake Systems	
HET 233	Suspension and Steering	
HYD 110	Hydraulics/Pneumatics I	
HYD 134	Hydraulic/Hydrostatic Construction	
HYD 210	Advanced Hydraulics	
Select 8 credits from the following:		8.0
WBL 112	Work-Based Learning I	
WBL 122	Work-Based Learning II	
WBL 132	Work-Based Learning III	
WBL 212	Work-Based Learning IV	
HET 126	Preventive Maintenance Lab	
HET 232	Medium/Heavy Duty Brake Systems Lab	
TRN 145	Advanced Transportation Electronics	
TRN 180A	Basic Welding for Transportation Lab	
TRN 140A	Transportation Climate Control Lab	
TRN 120A	Basic Transportation Electrical Lab	
ATT 130	Biofuels for Transportation	
ATT 135	Gaseous Fuels for Transportation	

Total Credits 68

Diesel and Heavy Equipment Technology Diplomas (D60460)

Diesel and Heavy Equipment Technology Diploma (D60460-D3)

General Education Requirements

ENG 111	Writing and Inquiry	3.0
MAT 110	Mathematical Measurement and Literacy	3.0

Major Requirements

TRN 110	Introduction to Transport Technology	2.0
TRN 120	Basic Transportation Electricity	5.0
TRN 140	Transportation Climate Control	2.0
HET 110	Diesel Engines	6.0
HET 114	Power Trains	5.0
HET 125	Preventive Maintenance	2.0

Major Other - Select 14 credits from the following: 14.0

TRN 170	Pc Skills for Transportation	
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TRN 180	Basic Welding for Transportation	
HET 115	Electronic Engines	
HYD 112	Hydraulics-Medium and Heavy Duty	
HET 231	Medium/Heavy Duty Brake Systems	
HET 233	Suspension and Steering	
HYD 110	Hydraulics/Pneumatics I	
HYD 112	Hydraulics-Medium and Heavy Duty	
HYD 134	Hydraulic/Hydrostatic Construction	
Technical Elective - Select 6 Credits from the following:		6.0
TRN 120A	Basic Transportation Electrical Lab	
TRN 140A	Transportation Climate Control Lab	
TRN 180A	Basic Welding for Transportation Lab	
HET 126	Preventive Maintenance Lab	
HET 230	Air Brakes	
HET 233	Suspension and Steering	
Total Credits		48

Diesel and Heavy Equipment Technology Certificates (C60460)

- Diesel and Heavy Equipment Technology Certificate Specialization in Forklift Repair (C60460-C1) (p. 2)
- Diesel and Heavy Equipment Technology Certificate Specialization in Diesel Service Repair I (C60460-C3) (p. 2)
- Diesel and Heavy Equipment Technology Certificate Specialization in Diesel Service Repair II (C60460-C4) (p. 2)
- Diesel and Heavy Equipment Technology Certificate Specialization in Diesel Service Repair III (C60460-C5) (p. 2)

Diesel and Heavy Equipment Technology Certificate Specialization in Forklift Repair (C60460-C1)

Major Requirements

TRN 120	Basic Transportation Electricity	5.0
HET 110	Diesel Engines	6.0
HET 125	Preventive Maintenance	2.0
TRN 120A	Basic Transportation Electrical Lab	1.0
HET 126	Preventive Maintenance Lab	1.0
HYD 112	Hydraulics-Medium and Heavy Duty	2.0
Total Credits		17

Diesel and Heavy Equipment Technology Certificate Specialization in Diesel Service Repair I (C60460-C3)

Major Requirements

TRN 110	Introduction to Transport Technology	2.0
TRN 140	Transportation Climate Control	2.0
HET 110	Diesel Engines	6.0
TRN 140A	Transportation Climate Control Lab	2.0
TRN 170	Pc Skills for Transportation	2.0
HET 231	Medium/Heavy Duty Brake Systems	2.0
HET 232	Medium/Heavy Duty Brake Systems Lab	1.0
Total Credits		17

Diesel and Heavy Equipment Technology Certificate Specialization in Diesel Service Repair II (C60460-C4)

Major Requirements

TRN 140	Transportation Climate Control	2.0
TRN 140A	Transportation Climate Control Lab	2.0
TRN 180	Basic Welding for Transportation	3.0
TRN 180A	Basic Welding for Transportation Lab	1.0
HET 233	Suspension and Steering	4.0
WBL 112	Work-Based Learning I	2.0
Total Credits		14

Diesel and Heavy Equipment Technology Certificate Specialization in Diesel Service Repair III (C60460-C5)

Major Requirements

HET 114	Power Trains	5.0
HET 125	Preventive Maintenance	2.0
HET 126	Preventive Maintenance Lab	1.0
HET 128	Medium/Heavy Duty Tune Up	2.0
HET 230	Air Brakes	2.0
HYD 110	Hydraulics/Pneumatics I	3.0
WBL 112	Work-Based Learning I	2.0
Total Credits		17

The following is the suggested plan for when to take each course to complete the Associate in Applied Science degree, based on the program requirements of the 2022-2023 catalog. This is only a recommendation — you may take courses in another order upon consultation with your advisor. This plan is based on you starting with college-level math and English courses, starting your program in the fall, and attending full-time. You can also follow this sequence if you attend part-time. Speak with an advisor about the plan and any questions. This program might also offer diplomas or certificates; visit the catalog or contact the program for details.

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