

Diesel Technician Emphasis

Transportation Technologies Degree

Associate of Applied Science

The diesel technician program trains individuals for apprentice level positions servicing, repairing, and maintaining heavy equipment and over the road long-haul vehicles. The program emphasizes principles of operation, diagnosis and service procedures. Using the latest technology in diagnosis and repair equipment, this comprehensive training prepares graduates with skills that are in high demand in the diesel repair industry.

Degree Outcomes

Students completing the degree will:

- Fulfill the requirements for the Associate of Applied Science.
- Demonstrate competency in their specified emphasis.

Emphasis Outcomes

Students completing the emphasis will:

- Identify and implement safety procedures involved in diagnosis, service, and repair of all major medium/heavy duty truck and heavy equipment components and systems.
- Analyze and interpret diagnostic and test information to formulate correct repair procedures.
- Demonstrate correct repair strategies and techniques by applying knowledge of system operation and demonstrating mechanical skills to accomplish repair tasks.

General Education Requirements

Diversity	(3 credits)
See the diversity section of the general education descriptions for a complete list of courses.	
Communications	3 credits
English	3 credits
Recommended: ENG 107	
Human Relations	3 credits
Recommended: CE 201	
Quantitative Reasoning	3 credits
Recommended: MATH 108 or higher	
Science	3 credits
Recommended: PHYS 100	
Social Science/Humanities	3 credits
U.S. and Nevada Constitutions	3 credits
Total General Education Requirements	21 Credits

Core Requirements

AIT 110	General Industrial Safety.....	1
AUTO 111	Automotive Electricity	4
DT 211	Light Duty Performance	2
Total Core Requirements		7 Credits

Emphasis Requirements

AUTO 165	Auto Heating and Air Conditioning.....	5
DT 101	Basic Diesel Engines	4
DT 106	Heavy Duty Transmissions and Power Trains.....	5
DT 107	Heavy Duty Drive Trains.....	5
DT 110	Heavy Duty Electrical Systems.....	3
DT 130	Heavy Duty Hydraulics	2
DT 201	Diesel Brakes and Pneumatics	3
DT 210	Advanced Diesel Engines	4
DT 217	Electronic Fuel Injection II	3
DT 235	Steering and Suspension.....	2
DT 250	Preventative Maintenance.....	2
MT 160	Hydraulic Power	3

Total Emphasis Requirements	41 Credits
Total Degree Requirements	69 Credits

Suggested Course Sequence

First Year	Course #	Title	Credits
1st Semester			
Core	AIT 110	General Industrial Safety	1
Emphasis	DT 101	Basic Diesel Engines	4
Emphasis	DT 210	Advanced Diesel Engines	4
Emphasis	DT 217	Electronic Fuel Injection II	3
Quantitative Reasoning	MATH 108	Math for Technicians	3
U.S. and Nevada Constitutions	PSC 101	Introduction to American Politics	3
Total			18
2nd Semester			
Core	AUTO 111	Automotive Electricity	4
Emphasis	AUTO 165	Heating and Air Conditioning	5
Core	DT 211	Light Duty Performance	2
Emphasis	DT 235	Steering and Suspension	2
Emphasis	DT 250	Preventative Maintenance	2
Science	PHYS 100	Introductory Physics	3
Total			18
Second Year	Course #	Title	Credits
3rd Semester			
Humanities/ Diversity	AAD 201	History of the Built Environment	3
Human Relations	CE 201	Workplace Readiness	3
Emphasis	DT 110	Heavy Duty Electrical Systems	3
Emphasis	DT 201	Brakes and Pneumatics	3
English	ENG 101	Composition I	3
Emphasis	MT 160	Hydraulic Power	3
Total			18
4th Semester			
Emphasis	DT 106	Heavy Duty Transmissions and Power Trains	5
Emphasis	DT 107	Heavy Duty Drive Trains	5
Emphasis	DT 130	Heavy Duty Hydraulics	2
Communications	ENG 107	Technical Communications I	3
Total			15
Degree Total			69