ASSOCIATE OF APPLIED SCIENCE - TRANSPORTATION TECHNOLOGIES DIESEL TECHNICIAN EMPHASIS

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.

AAS degrees are generally non-transfer degrees that are designed for students to enter the workforce.

To earn an AAS degree, students must:

1. Maintain a minimum cumulative GPA of 2.0 (see requirements for graduation.)
2. Complete a minimum of 15 units within the college.
3. Satisfy General Education requirements for the AAS (http://catalog.tmcc.edu/degrees-certificates/general-education/aas).
4. Have no financial or library obligation to the college.

General Education Requirements		
Diversity [1]		*[3]*
Recommended:		
AAD 201	History of the Built Environment	
Communications/English		*6*
Communications - Recommended:		
BUS 107	Business Speech Communications	
English - Recommended:		
ENG 107	Technical Communications I	
Fine Arts/Humanities/Social Science		*3*
Recommended:		
AAD 201	History of the Built Environment	
Human Relations		
Embedded: DT 101, DT 201, DT 211, DT 235, DT 250, OSH 222		
Mathematics		
Embedded: DT 101, DT 201, DT 211, DT 235, DT 250, AUTO 111		
Science		*3*
Recommended:		
PHYS 100	Introductory Physics	
U.S./Nevada Constitutions		*3*
Degree Requirements		
AUTO 111	Automotive Electricity	4
DT 211	Light Duty Performance	2
OSH 222	General Industry Safety	1
Emphasis Requirements		
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	Preventive Maintenance	2
Elective Requirements		*5*
AUTO 112	Automotive Electricity II	
AUTO 145	Automotive Brakes	
AUTO 165	Auto Heating and Air Conditioning	
AUTO 227	Engine Performance II	
AUTO 265	Electrical/Electronic Systems III	
WELD 101	Basic Metals	
WELD 211	Welding I	
WELD 212	Welding I Practice	
Total Units		60

[1] Course may also count toward degree requirements. Please consult with Academic Advisement.

Course	Title	Units
1st semester		
ENG 107	Technical Communications I	3
DT 101	Basic Diesel Engines	4
DT 201	Diesel Brakes and Pneumatics	3
DT 211	Light Duty Performance	2
DT 235	Steering and Suspension	2
OSH 222	General Industry Safety	1
	Semester Total	15
2nd semester		
U.S. and Nevada Constitutions [2]		3
AUTO 111	Automotive Electricity	4
DT 130	Heavy Duty Hydraulics	2
DT 210	Advanced Diesel Engines	4
DT 250	Preventive Maintenance	2
	Semester Total	15

3rd semester		
DT 106	Heavy Duty Transmissions and Power Trains	5
DT 107	Heavy Duty Drive Trains	5
DT 217	Electronic Fuel Injection II	3
Science [3]		3
	Semester Total	16
4th semester		
Communications [3]		3
DT 110	Heavy Duty Electrical Systems	3
Social Science		3
Elective [3]		5
	Semester Total	14
	Total Units	60

[2] See approved General Education list for the AAS Degree. (http://catalog.tmcc.edu/degrees-certificates/general-education/aas)

[3] See program recommendations or requirements.