

# DIESEL TECHNICIAN, TRANSPORTATION TECHNOLOGIES, AAS

## Program Code: Diesel Technician-AAS

### Program Description

The Associate of Applied Science, Transportation Technologies, Diesel Technician Program trains individuals for apprentice-level positions servicing, repairing, and maintaining medium and heavy duty transportation vehicles and equipment. 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.

### Recommended Course Schedule

1st semester		Units
DT 100	Introduction to Diesel Technologies	2
DT 101	Basic Diesel Engines	4
DT 210	Advanced Diesel Engines	4
DT 217	Electronic Diesel Fuel Injection	4
PSC 101 or HIST 111	Introduction to American Politics (or any other Fine Arts/Humanities/Social Science GE course) <sup>2</sup> or Survey of U.S. Constitutional History	3
<b>Semester Total</b>		<b>17</b>
2nd semester		Units
DT 102	Basic Heavy Duty Electrical Systems	4
DT 110	Heavy Duty Electrical Systems	3
DT 105	Mobile Heating and Air Conditioning	3
DT 201	Diesel Brakes and Pneumatics	3
<b>Semester Total</b>		<b>13</b>
3rd semester		Units
ENG 107	Technical Communications I (or any other English GE course) <sup>2</sup>	3
Science <sup>3</sup>		3
DT 106	Heavy Duty Transmissions and Power Trains	4
DT 107	Heavy Duty Automatic Transmissions and Drive Trains	4
DT 235	Steering and Suspension	2
<b>Semester Total</b>		<b>16</b>
4th semester		Units
COM 285	Communication Disabilities and Film (or any other Communication GE course) <sup>2</sup>	3
Elective		3
Elective		3
DT 130	Heavy Duty Hydraulics	3
DT 250	Preventive Maintenance	2
<b>Semester Total</b>		<b>14</b>
<b>Total Units</b>		<b>60</b>

- <sup>2</sup> See approved General Education list for the AAS Degree. (<https://catalog.tmcc.edu/degrees-certificates/general-education/aas/>)  
<sup>3</sup> See program recommendations or requirements.

### Program Requirements

AAS degrees are generally non-transfer degrees 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 (<https://catalog.tmcc.edu/degrees-certificates/general-education/aas/>).
4. Have no financial or library obligation to the college.

Code	Title	Units
<b>General Education Requirements</b>		
<i>Communications/English</i>		6
Communications		
Recommended:		
COM 285	Communication Disabilities and Film	
English		
Recommended:		
ENG 107	Technical Communications I	
<i>Fine Arts/Humanities/Social Science</i>		3
Recommended:		
PSC 101 or HIST 111	Introduction to American Politics Survey of U.S. Constitutional History	
<i>Human Relations</i>		
Embedded: DT 101, DT 102, DT 110, DT 130, DT 201, DT 250		
<i>Mathematics</i>		
Embedded: DT 101, DT 102, DT 110, DT 130, DT 201, DT 250		
<i>Science</i>		3
<b>Additional College Requirements</b>		
<i>Diversity<sup>1</sup></i>		[3]
<i>U.S. and Nevada Constitutions<sup>1</sup></i>		[3]
<b>Degree Requirements</b>		
<b>Emphasis Requirements</b>		
DT 100	Introduction to Diesel Technologies	2
DT 101	Basic Diesel Engines	4
DT 102	Basic Heavy Duty Electrical Systems	4
DT 105	Mobile Heating and Air Conditioning	3
DT 106	Heavy Duty Transmissions and Power Trains	4
DT 107	Heavy Duty Automatic Transmissions and Drive Trains	4
DT 110	Heavy Duty Electrical Systems	3
DT 130	Heavy Duty Hydraulics	3
DT 201	Diesel Brakes and Pneumatics	3
DT 210	Advanced Diesel Engines	4
DT 217	Electronic Diesel Fuel Injection	4

DT 235	Steering and Suspension	2
DT 250	Preventive Maintenance	2
<i>Elective Requirements</i>		6
Recommended:		
Any other courses including a course that meets diversity.		
<b>Total Units</b>		<b>60</b>

<sup>1</sup> Course may also count toward degree requirements. Please consult with Academic Advisement.

## Program Outcomes

Students completing this degree will:

PSLO1: Identify and implement safety procedures involved in diagnosis, service, and repair of all major medium/heavy duty truck and heavy equipment components and systems.

PSLO2: Analyze and interpret diagnostic and test information to formulate correct repair procedures.

PSLO3: Demonstrate correct repair strategies and techniques by applying knowledge of system operation and demonstrating mechanical skills to accomplish repair tasks.