

DIESEL GENERAL SERVICE TECHNICIAN, COA

Program Code: Diesel Gen Svc Technician-CoA

Program Description

The Certificate of Achievement, Diesel General Service Technician is a one and a half year, three-semester training program designed to prepare the student to enter the medium and heavy duty transportation industry with the skills to be a successful mechanic/technician. This certificate emphasizes principles of operation along with diagnostic and repair procedures. All general service training may be applied toward other diesel degree programs and also prepares students for ASE T-series of exams to become nationally certified.

Recommended Course Schedule

	Units
1st semester	
Elective ¹	3
DT 100 Introduction to Diesel Technologies	2
DT 102 Basic Heavy Duty Electrical Systems	4
DT 110 Heavy Duty Electrical Systems	3
DT 105 Mobile Heating and Air Conditioning (3)	3
Semester Total	15
2nd semester	
Communications ¹	3
DT 130 Heavy Duty Hydraulics	3
DT 201 Diesel Brakes and Pneumatics	3
DT 250 Preventive Maintenance	2
Semester Total	11
3rd semester	
DT 210 Advanced Diesel Engines	4
DT 217 Electronic Diesel Fuel Injection	4
DT 101 Basic Diesel Engines	4
Semester Total	12
Total Units	38

¹ See program recommendations or requirements.

Program Requirements

Certificates of Achievement can be a stepping stone to an associate degree or allow students to enter the workforce. Certificates of Achievement have a general education component.

To earn a Certificate of Achievement, students must:

1. Maintain a minimum cumulative GPA of 2.0 (see requirements for graduation.)
2. Complete a minimum of 15 semester credit hours within the college.

3. Satisfy General Education requirements for the Certificate of Achievement (<https://catalog.tmcc.edu/degrees-certificates/general-education/coa/>).
4. Have no financial or library obligation to the college.

Code	Title	Units
General Education Requirements		
<i>Communications</i>		3
Recommended:		
BUS 107 or ENG 107	Business Speech Communications Technical Communications I	
<i>Human Relations</i>		[3]
Satisfied through embedded curriculum in the following courses: DT 101, DT 102, DT 110, DT 130, DT 201, DT 250.		
<i>Mathematics</i>		[3]
Satisfied through embedded curriculum in the following courses: DT 101, DT 102, DT 110, DT 130, DT 201, DT 250.		
Certificate Requirements		
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 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 250	Preventive Maintenance	2
Elective Requirements		
Select at least 3 units from the following:		3
IS 101	Introduction to Information Systems	
OR select and AUTO, WELD, HVAC		
Total Units		38

Program Outcomes

Students completing the certificate 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: Demonstrate correct repair strategies and techniques by applying knowledge of system operation and demonstration of mechanical skills to accomplish repair tasks.