DIESEL ASE TECHNICIAN, COA

Program Description

This Certificate of Achievement, Diesel ASE Technician, combines with the Diesel General Service Technician Certificate of Achievement to complete the Diesel AAS adding a deeper level of understanding and experience for systems operations, diagnosis, and repair of medium and heavy-duty transportation vehicles and equipment. 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. Combined with the General Service Technician Certificate students will be further prepared to take the ASE T-series of exams and become nationally certified and possibly gain master technician status.

Recommended Course Schedule

1st semester		Units
DT 100	Introduction to Diesel Technologies	2
DT 101	Basic Diesel Engines	4
Communications		3
	Semester Total	**9**
2nd semester		
DT 105	Mobile Heating and Air Conditioning	3
DT 102	Basic Heavy Duty Electrical Systems	4
DT 110	Heavy Duty Electrical Systems	3
DT 201	Diesel Brakes and Pneumatics	3
	Semester Total	**13**
3rd semester		
DT 130	Heavy Duty Hydraulics	3
DT 250	Preventive Maintenance	2
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
	Semester Total	**15**
	Total Units	**37**

Program Requirements

Certificates of Achievement are a set of courses that can serve as 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/aas/).
4. Have no financial or library obligation to the college.

Code	Title	Units
General Education Requirements		
Communications		*3*
Recommended:		
BUS 107	Business Speech Communications	
or ENG 107	Technical Communications I	
Human Relations		*[3]*
Satisfied through embedded curriculum in the following courses: DT 101, DT 102, DT 110, DT 130, DT 201, DT 250.		
Mathematics		*[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 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 235	Steering and Suspension	2
DT 250	Preventive Maintenance	2
Total Units		**37**

Program Outcomes

Students completing the certificate will:

PSLO1: Analyze and apply the proper heavy-medium duty vehicle components, diagnosis, rebuild, and repair procedures.

PSLO2: Identify, test, and interpret failed heavy-medium duty vehicle components, and apply appropriate repair strategies.

PSLO3: Analyze and apply appropriate workplace skills and tools, including the application of personal and mechanical safety measures in the workplace.