

# LMH DIESEL FLEET MAINTENANCE TECHNICIAN, COA

## Program Code: LMH Diesel MaintenanceTech-CoA

### Program Description

This Certificate of Achievement, LMH Diesel Fleet Maintenance Technician, will help students complete a well-rounded course of training to gain exposure to light, medium, and heavy-duty diesel vehicles. The certificate adds a deeper level of understanding and experience for systems operations, maintenance, and light repair of light, medium, and heavy-duty transportation vehicles and equipment. Using the latest technology in maintenance and inspection this comprehensive training prepares graduates with skills that are in high demand in the diesel fleet maintenance 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

#### First Year

1st semester		Units
DT 100	Introduction to Diesel Technologies	2
AUTO 101	Introduction to General Mechanics	4
OSH 222	General Industry Safety	1
DT 102	Basic Heavy Duty Electrical Systems	4
DT 110	Heavy Duty Electrical Systems	3
AUTO 145	Automotive Brakes	5
<b>Semester Total</b>		<b>19</b>

#### 2nd semester

DT 201	Diesel Brakes and Pneumatics	3
DT 250	Preventive Maintenance	2
AUTO 136	Engine Repair	5
AUTO 150	Steering and Suspension Systems	5
DT 235	Steering and Suspension	2
BUS 111	Workplace Communications	3
<b>Semester Total</b>		<b>20</b>
<b>Total Units</b>		<b>39</b>

### 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/aas/>).
4. Have no financial or library obligation to the college.

Code	Title	Units
<b>General Education Requirements</b>		
<i>Communications</i>		<b>3</b>
Recommended:		
BUS 111	Workplace Communications	
<i>Human Relations</i>		<b>(3)</b>
Required:		
Requirement is satisfied through embedded curriculum in the following courses: AUTO 136, AUTO 145, AUTO 150, DT 102, DT 110, DT 201, DT 250 and OSH 222.		
<i>Mathematics</i>		<b>(3)</b>
Requirement is satisfied through embedded curriculum in the following courses: AUTO 145, AUTO 136, AUTO 150, DT 102, DT 110, DT 250.		
DT 100	Introduction to Diesel Technologies	2
DT 102	Basic Heavy Duty Electrical Systems	4
DT 110	Heavy Duty Electrical Systems	3
DT 201	Diesel Brakes and Pneumatics	3
DT 235	Steering and Suspension	2
DT 250	Preventive Maintenance	2
AUTO 101	Introduction to General Mechanics	4
AUTO 136	Engine Repair	5
AUTO 145	Automotive Brakes	5
AUTO 150	Steering and Suspension Systems	5
OSH 222	General Industry Safety	1
<b>Total Units</b>		<b>39</b>

### Program Outcomes

Students completing the certificate will:

PSLO1: Analyze and apply the proper light, medium heavy-duty vehicle components, maintenance, inspection, and light repair procedures.

PSLO2: Identify, test, and interpret failed light, medium, heavy-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.