

DIESEL ENGINE REPAIR, CERTIFICATE OF ACHIEVEMENT

The Certificate of Achievement in Diesel Engine Repair at Ventura College is designed to prepare students for employment in the diesel engine repair workforce. Students will be taught the advanced knowledge and high technology skills that will prepare them for a career as a diesel technician in the 21st century. The program curriculum incorporates lecture and laboratory activities.

The main competencies that students completing the Certificate of Achievement in Diesel Engine Repair will have achieved are: maintenance and inspection of heavy-duty vehicles; repair of diesel engines; technical, operational, and diagnostic skills of diesel electrical systems; operation of power train units; inspection and adjustment of steering suspension systems; brake systems service; and diagnosis of fuel system faults.

The Certificate of Achievement in Diesel Engine Repair prepares students for careers as diesel engine technicians, fleet engine technicians, truck mechanics, transportation mechanics, transit mechanics, service technicians, mechanics, bus engine repair technicians, and agricultural equipment engine repair technicians.

Course ID	Title	Units/ Hours
Required Courses		
DM V11	Introduction to Heavy-Duty Diesel Repair	4
DM V12	Diesel Electrical/Electronic Systems	4
DM V26	Diesel Engines	4
DM V28	Diesel Fuel Management Systems	4
DM V40	Heating, Ventilation, and Air Conditioning (HVAC) and Preventive Maintenance	4
Total Units		20
Year 1		
Fall Semester		Units/Hours
DM V11	Introduction to Heavy-Duty Diesel Repair	4
DM V12	Diesel Electrical/Electronic Systems	4
	Units/Hours	8
Spring Semester		
DM V26	Diesel Engines	4
DM V28	Diesel Fuel Management Systems	4
DM V40	Heating, Ventilation, and Air Conditioning (HVAC) and Preventive Maintenance	4
	Units/Hours	12
	Total Units/Hours	20

Upon successful completion of this program, students will be able to:

- Demonstrate an understanding of operation, service and repair of medium and heavy duty vehicles.
- Analyze, diagnose and repair operational faults with medium and heavy duty vehicles.
- Perform maintenance inspection and maintenance service required of medium and heavy duty vehicles.