

CERTIFICATE IN DIESEL ENGINE SERVICE, DIAGNOSIS AND REPAIR TECHNICIAN

Upon completion of the required courses, students will receive the Diesel Engine Service, Diagnosis and Repair Technician Certificate. This certificate requires the completion of preventative maintenance, engine and engine control and electrical/electronic courses which provide the fundamentals necessary for the servicing of diesel engines. Students completing this certificate would be prepared to work as entry-level technicians on diesel engines operating multiple equipment types including on-highway trucks, off-highway heavy equipment and stationary diesel power generation. This certificate would be the first in the stackable series of certificates for the MTRK program which includes the Medium and Heavy Duty Truck Service, Diagnosis and Repair Master Technician Certificate and the Stationary Power Generation Service, Diagnosis and Repair Technician Certificate.

Learning Outcomes

Certificate of Achievement Student Level Outcomes

Students completing the Diesel Engine Service, Diagnosis and Repair Technician Certificate of Achievement will:

Upon completion of this course of study include students having the knowledge and ability to:

1. Explain the theory of operation of diesel engines and their related sub-systems.
2. Demonstrate safety procedures when working on diesel engines and related electrical systems.
3. Communicate effectively to owners and operators of diesel powered trucks the required maintenance and repairs needed.
4. Demonstrate a thorough understanding of workplace expectations.
5. Apply proper troubleshooting techniques to diagnose and repair diesel engines.

Requirements

Code	Title	Units
Required courses:		
MTRK 148	Medium and Heavy Truck Maintenance and Inspection	6
or MTRK 101	Introduction to Medium and Heavy Truck Maintenance and Inspection	
MTRK 152A	Medium and Heavy Truck Engines Service, Diagnosis, and Repair	6
MTRK 156A	Medium/Heavy Truck Electrical/Electronic Systems I	5

Code	Title	Units
MTRK 156B	Medium/Heavy Truck Electrical/Electronic Systems II	4
MTRK 159	Diesel Engine Management Systems	5
Total Units		26

Curriculum Map

1-Year Curriculum Map Example

This map represents one possible pathway through the program and is only for reference.

*It is highly recommended that you make an appointment (<https://www.citruscollege.edu/stdntsrv/counsel/Pages/ApptSchedule.aspx>) to create a customized education plan that fits your needs.

Course	Title	Units
Fall Term 1		
MTRK 156A	Medium/Heavy Truck Electrical/Electronic Systems I	5
MTRK 152A	Medium and Heavy Truck Engines Service, Diagnosis, and Repair	6
Completion of MTRK 101 in summer		
Units		11
Winter Term 1		
MTRK 156B	Medium/Heavy Truck Electrical/Electronic Systems II	4
Units		4
Spring Term 1		
MTRK 159	Diesel Engine Management Systems	5
Units		5
Total Units		20

Career Information

Career Opportunities

There are a variety of careers you can do with this major.

To explore more about this major, schedule an appointment (<https://www.citruscollege.edu/stdntsrv/ctcenter/Pages/ApptSchedule.aspx>) with a career counselor.