

Diesel Heavy Truck Technology (Technical Diploma)

The purpose of this program is to provide specialized classroom instruction and practical shop experience to prepare individuals to engage in the servicing and maintenance of all types of medium/heavy trucks at the entry level. The program prepares the individual to select, safely use, and maintain hand and power tools, jacks, and hoisting equipment. Instruction in the diagnosis of malfunctions and the repair of engines; fuel, electrical, cooling, and brake systems; drive train; suspension systems and maintenance are included.

The competencies in the Diesel Heavy Truck Technology program are directly correlated with the knowledge required to prepare an individual for the certification tests given by the **National Institute for Automotive Service Excellence (ASE)**. The content is organized into competency-based courses of instruction that specify occupational competencies the individual must successfully complete according to the priorities for tasks established by the **ASE Education Foundation**.

A Certificate of Technical Studies (CTS) may be earned at the end of the first semester, and the Diesel Heavy Truck Technician Technical Diploma (TD) may be earned upon completion of all technical courses. Students also have the option to complete the Vehicle Maintenance and Repair Technologies Associate of Applied Science with a concentration in Diesel Heavy Truck Technology by completing General Education courses in addition to the technical courses.

To receive any Diesel Heavy Truck credential, the student must:

- Have a cumulative GPA of 2.00 or better in all credit hours that are to be used towards the credential
- Earn a “C” or better in MVSB and DHTT courses
- Earn an “S” (Satisfactory) in DHTT 1152 and DHTT 1252

Program Outcomes. Upon successful completion of the program, the graduate will be able to:

1. Demonstrate the skills needed for entry and advanced levels of employment in the diesel heavy truck technology industry.
2. Demonstrate the diagnosis of malfunctions and repair of engines, fuel, electrical, cooling, and brake systems, drivetrain, and suspension systems.
3. Demonstrate the knowledge needed to pass the certification exams given by the National Institute for Automotive Service Excellence (ASE).
4. Demonstrate safe and efficient work practices, basic occupational skills, employability skills, and strong work ethics.

Program of Study

First Semester		Credit Hours
MVSB 1002	Fundamentals of Safety	2
MVSB 1003	Motor Vehicle Service Basics	3
MVSB 1604	Electrical Essentials	4
DHTT 1404	Truck Brake Systems	4
DHTT 1504	Truck Suspension and Steering	4
Semester Total:		17
Second Semester		Credit Hours
DHTT 1803	Preventative Maintenance Inspection	3
DHTT 1903	Hydraulic Systems	3

DHTT 1304	Truck Drivetrain	4
DHTT 1614	Truck Advanced Electrical	4
DHTT 1152	Truck Internship I	2
Semester Total:		16
Third Semester		Credit Hours
MVSB 1703	Heating and Air Conditioning	3
DHTT 1103	Truck Engine Design	3
DHTT 1014	Truck Engine Controls	4
DHTT 1252	Truck Internship II	2
Semester Total:		12
Total Program Credit Hours:		45

Diesel Heavy Truck Technology Credentials:

MVSB 1002	Fundamentals of Safety	Credit Hours 2
MVSB 1003	Motor Vehicle Service Basics	3
MVSB 1604	Electrical Essentials	4
DHTT 1404	Truck Brake Systems	4
DHTT 1504	Truck Suspension and Steering	4
CTS: Truck Suspension, Steering, and Brakes		17

MVSB 1002	Fundamentals of Safety	Credit Hours 2
MVSB 1003	Motor Vehicle Service Basics	3
MVSB 1604	Electrical Essentials	4
MVSB 1703	Heating and Air Conditioning	3
DHTT 1014	Truck Engine Controls	4
DHTT 1103	Truck Engine Design	3
DHTT 1304	Truck Drivetrain	4
DHTT 1404	Truck Brake Systems	4
DHTT 1504	Truck Suspension and Steering	4
DHTT 1614	Truck Advanced Electrical	4
DHTT 1803	Preventative Maintenance Inspection	3
DHTT 1903	Hydraulic Systems	3
DHTT 1152	Truck Internship I	2
DHTT 1252	Truck Internship II	2
TD: Diesel Heavy Truck Technician		45

Students interested in pursuing the Vehicle Maintenance and Repair Technologies Associate of Applied Science degree with a concentration in Diesel Heavy Truck Technology should contact the Division of Technical Education at 225-216-8367 for more information.