



CERTIFICATE

## Certificate in Medium/Heavy Truck Diesel Technology

**Total Credit Hours:** 36

**About** Certificate in Medium/Heavy Truck Diesel Technology

The Medium/Heavy Truck Diesel Technology program prepares graduates to work in the automotive field with special emphasis in diesel service. Graduates will be able to troubleshoot, maintain, and repair various types of diesel engines, trucks, boats, and other heavy equipment. Students will obtain knowledge and skills in Medium/Heavy Truck in a variety of areas to include: diesel engines; drive trains; brake systems; suspension and steering; heating, ventilation, air conditioning; hydraulics; electrical/electronic systems; and preventive maintenance.

Students completing this program will have preparatory knowledge in the eight main areas of the Medium/Heavy Truck Diesel Technology and will prepare them for entry-level, Assistant Technician positions. This program prepares graduates to pass the ASE National Certification Exams and enter the workforce as entry-level, Junior Technicians.

### [REQUIREMENTS FOR CERTIFICATE](#)

Major Requirements		
Course	Course Name	Credits
MHT100A	Intro to Diesel Technology and Preventive Maintenance Part I	3
MHT100B	Intro to Diesel Technology and Preventive Maintenance Part II	3
MHT110	Diesel Engines Part I	3
MHT120	Medium/Heavy Truck Drive Trains Part I	3
MHT130	Brake Systems Part I	3
MHT140	Suspension & Steering Part I	3
MHT150	Medium/Heavy Truck Heating, Ventilation, & Air Conditioning	3
MHT160	Hydraulics	3
MHT170	Medium/Heavy Truck Electrical/Electronic Systems Part I	3
MHT210	Diesel Engines Part II	3
MHT230	Brake Systems Part II	3

MHT270	Medium/Heavy Truck	3
	Electrical/Electronic Systems Part II	
<b>Certificate Total</b>		<b>36</b>

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[GENERAL REQUIREMENTS FOR CERTIFICATE](#)

# General Requirements for Certificates

Effective fall Semester 2003, several academic policy changes were implemented to ensure that students are adequately prepared to meet business and industry standards. All Undeclared or newly Declared Students enrolled in regularly scheduled postsecondary courses must be enrolled in or must have completed developmental coursework for Math and English or have successfully placed into post-secondary Math and English (or equivalent).

Students must fulfill the English general education requirement by the time they have enrolled in 12 credits of classes. This means that students may take only nine (9) credits before they must begin meeting the general education requirements. All declared students in Certificate programs will be required to successfully complete minimum general education course requirements. For more information, refer to the Admissions Information, General Education Policy section of this catalog.

## A. General Education Requirements

Students must demonstrate proficiency in reading, writing, understanding and speaking English as indicated by one of the following:

- Test out of the English Placement Test (or equivalent), or
- Satisfactory completion of EN097 courses and
- Test out of the Math Placement Test (or equivalent), or
- Satisfactory completion of MA098 course

\*Students in the Certificate of Construction Technology program can successfully complete their math requirements with MA094 Mathematics for the Trades in lieu of MA098 Intermediate Algebra.

B. Major Requirements. Total Major Requirements vary by program. Minimum Total Credits Required for a Certificate is 30 credits.

\* No course may be counted for both Major and General Education requirements.

\*\* Placement testing is not mandatory for admission to the College. Completion of placement testing or equivalent, however, is required for enrollment into English and mathematics courses. Therefore, students who plan to enroll full-time in a program should take the placement test to be eligible for a full load of courses.

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## [Student Learning Outcomes](#)

Upon successful completion of the Certificate in Medium/Heavy Truck Diesel Technology program, students will be able to:

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1. Seek employment as a Heavy/Medium Truck Technician, Fleet Mechanic, Heavy Marine Diesel Technician, Generator Repair, Heavy Equipment Repair or Parts Counter person.
2. Troubleshoot, maintain, and repair various heavy trucks and mobile equipment, including bulldozers, boats, cranes, road graders, farm tractors, and combines.

**Check out some of these amazing Certificate in Medium/Heavy Truck Diesel Technology courses...**

### **MHT120 Medium/Heavy Truck Drive Trains Part I**

This is an introductory course covering the functionality of diesel transmissions, fundamentals of diesel clutches, troubleshooting, and repair of basic transmission drivability faults.

[+ More Info](#) [1]

### **MHT110 Diesel Engines Part I**

This course introduces students to the theory and operation of diesel engines that includes general engine diagnostics, minor diagnosis and repair of cylinder head and valve train, engine block, lubrication system, and cooling system.

[+ More Info](#) [2]

### **MHT100A Intro to Diesel Technology and Preventive Maintenance Part I**

This is the first of a two-part introductory course that prepares students for study within specific areas of Medium/Heavy Truck Diesel Technology. Topics covered include workshop safety practices, proper usage of hand tools, special tools and testing equipment, and preventive maintenance procedures on diesel engines, fuel systems, air induction and exhaust systems.

[+ More Info](#) [3]

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**You may also be interested in these related Programs...**



[4]

[Hybrid Electric Vehicle Technician](#) [4]

The Light Duty Hybrid Electric Vehicle Technology Industry Certification program prepares students to become National Institute for Automotive Service Excellence (ASE) Certified Light Duty Hybrid Electric Vehicle Specialist by providing technical skills and competencies, based on the standards set by ASE, in hybrid engines, motor/generators, energy management systems, transaxles, power electronics, and hybrid electric vehicle support systems.

[+ More Info](#) [4]



[5]

[Certificate in Automotive Service Technology - Master Service Technician Track](#) [5]

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The Certificate program in Automotive Service Technology (AST) is a competency-based program designed to offer entry level training sufficient for employee success in automotive technician positions. Skills acquired in this program also apply directly to occupational areas including diesel mechanics, small engine repair, generator repair, marine engine service, fleet service, repair service order writing, and entry level automotive service management.

[+ More Info](#) [5]



[6]

### [Certificate in Automotive Service Technology - General Service Technician Track](#) [6]

The Certificate program in Automotive Service Technology (AST) is a competency-based program designed to offer entry level training sufficient for employee success in automotive technician positions. Skills acquired in this program also apply directly to occupational areas including diesel mechanics, small engine repair, generator repair, marine engine service, fleet service, repair service order writing, and entry level automotive service management.

[+ More Info](#) [6]