



Diesel Service Technology

The Diesel Service Technology program as South Plains College offers several options for education.

All incoming students will begin in the Basic Diesel certificate level classes. This certificate is designed as an introductory level certificate. This certificate addresses an industry entry level set of skills that provide a basic foundation for advanced studies and more focused training or specialization. Classes that are taken in this first year are focused on the following areas:

- Shop Safety, Procedures, Operations & Basic Shop skills
- Basic Electrical Systems
- Basic Hydraulics
- Heating, Ventilation & Air Conditioning
- Diesel Engine Fundamentals, Operation, Rebuild
- Powertrain Fundamentals
- Brake Systems
- Troubleshooting, Diagnostic Principles

After successful completion of the Basic Diesel Certificate, a student may further their education by undertaking advanced studies that lead to specialization in either the heavy equipment (including agriculture) or the transportation (truck, bus) industry. The path for those options begins with some common courses for these areas which begins the second year of studies:

- Advanced Electrical Systems
- Electronic Controls, Computer Aided Diagnostics, CANBUS systems
- Advanced Troubleshooting & Diagnostics
- Fuel Systems & Electronic Controls / Systems

In the fourth semester, a student will undertake studies in areas that are specific to either the equipment or transportation industries:

EQUIPMENT / AG

- Advanced Hydraulics
- Powershift & Hydrostatic Drive Fundamentals
- Advanced Powershift & Hydrostats
- Elective (Engine Rebuild, Steering or Powertrain Applications)

TRANSPORTATION

- Steering & Suspension Systems
- Engine Rebuild / Overhaul
- Powertrain Applications
- Elective (Powershit & Hydrostat or Advanced Hydraulics)



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If a student desires, they may simultaneously pursue an Associate of Applied Science degree in Diesel Service Technology. That is accomplished by completing 15 hours of academic studies as follows:

English - ENGL 1301 - Composition I

Math - MATH 1332 - Contemporary Mathematics (A higher level math may be taken such as College Algebra)

Speech - SPCH 1321 - Business & Professional Speech

Social / Behavioral elective (Group 80 such as general psychology PSYCH 2301)

Language / Philosophy / Culture / Creative Arts elective (Group 40 or 50 such as Intro to Philosophy PHIL 1301)

A student who is in the AAS degree program must comply with the Texas Skills Initiative (TSI) rules for basic reading, writing and mathematics proficiency. A student that is weak in those areas must take remediation courses or retest and pass in those areas before the credit courses may be taken.