

HEAVY DIESEL TRUCK, CERTIFICATE OF TECHNOLOGY



Program Information

The Diesel Technology department at San Jacinto College is committed to teaching students this technology at industry level, while maintaining a close relationship with the diesel industry. We assist students with career options and job placement opportunities. The most important focus of this department is students and their knowledge acquisition.

The San Jacinto College Diesel Technology program:

- Is committed to teaching students technology at industry level, while maintaining a close relationship with the diesel industry;
- Teaches engine testing and repair, electrical systems, HVAC, power train, brake systems, safety, and more; and
- Offers an associate degree program that provides students the business background needed to open doors on the corporate and management sides of the industry.

Career Opportunities

Careers in diesel technology are at an all-time high. Most of our students are hired before graduation. Many students are recruited by companies and organizations such as:

- Cummins,
- Stewart & Stevenson,
- City of Houston,
- Penske Corporation, and
- Houston area truck dealers.

Earning Potential

Bus & Truck Mechanics & Diesel Engine Specialists: \$59,249 per year¹

¹ Source: texaswages.com, median salary Gulf Coast region, 2023

For more information, students may contact 281-998-6350, x7639.

Campus

North Campus

Information

The Heavy Diesel Truck Certificate of Technology focuses on the technical training required to enter the field of diesel technology in the repair and maintenance of over-the-road, heavy-duty diesel trucks. Topics

of study will focus on the knowledge and technological skills students need to obtain entry-level employment.

Students enrolling into San Jacinto College programs with external learning experiences (i.e., clinical, practicum, externship, cooperative, etc.) will be required to comply with the immunization requirements and policies of the clinical/external learning sites to engage in all clinical/external learning experiences. Vaccination requirements at clinical/external learning sites are implemented pursuant to the independent authority of such facilities and are not mandated by San Jacinto College. Failure to meet the immunization requirements mandated by clinical/external learning sites may limit a student's ability to complete the program and/or may delay the student's graduation date. San Jacinto College does not process exemptions, and students should address potential vaccination exemptions directly with the clinical/external learning site.

Plan of Study

4DESL-HTR

First Term		Credits
DEMR 1301	Shop Safety and Procedures	3
DEMR 1306	Diesel Engine I	3
DEMR 1405	Basic Electrical Systems	4
DEMR 1410	Diesel Engine Testing and Repair I	4
Credits		14
Second Term		
DEMR 1413	Fuel Systems	4
DEMR 1423	Heating, Ventilation, and Air Conditioning (HVAC) Troubleshooting and Repair	4
DEMR 1317	Basic Brake Systems	3
DEMR 2432	Electronic Controls	4
Credits		15
Third Term		
DEMR 1421	Power Train I	4
DEMR 2334	Advanced Diesel Tune-up and Troubleshooting	3
DEMR 2412	Diesel Engine Testing and Repair II	4
DEMR 2266 or DEMR 1229	Field Experience-Diesel Mechanics ¹ or Preventative Maintenance	2
Credits		13
Total Credits		42

Capstone Experience: DEMR 2334 Advanced Diesel Tune-up and Troubleshooting

¹ DEMR 1229 Preventative Maintenance is offered as a substitute course for DEMR 2266 Field Experience-Diesel Mechanics, if jobs are not available.