

# HEAVY DIESEL POWER, ASSOCIATE OF APPLIED SCIENCE



## 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: \$52,654 per year<sup>1</sup>

<sup>1</sup> Source: texaswages.com (<http://texaswages.com>), median salary Gulf Coast region, 2021

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

## Campus

North Campus

## Information

The Diesel Heavy Power Associate of Applied Science (AAS) degree will prepare students for a career in the power generation field.

## Plan of Study

3DESL-HPW

First Term		Credits
DEMR 1301	Shop Safety and Procedures	3
DEMR 1306	Diesel Engine I	3
DEMR 1229	Preventative Maintenance	2
DEMR 1410	Diesel Engine Testing and Repair I	4
<b>Credits</b>		<b>12</b>
Second Term		
DEMR 1405	Basic Electrical Systems	4
HART 1407	Refrigeration Principles	4
ELPT 1341	Motor Control	3
ELPT 1311	Basic Electrical Theory	3
<b>Credits</b>		<b>14</b>
Third Term		
DEMR 2334	Advanced Diesel Tune-up and Troubleshooting <sup>1</sup>	3
HART 2441	Commercial Air Conditioning	4
DEMR 1413	Fuel Systems	4
ELPT 2423	Transformers	4
ENGL 1301	Composition I	3
<b>Credits</b>		<b>18</b>
Fourth Term		
MATH 1332	Contemporary Mathematics (Quantitative or MATH 1314 Reasoning)	3
GEOL 1303 & GEOL 1103	Physical Geology (lecture) and Physical Geology (lab)	4
Social and Behavioral Sciences		3
Language, Philosophy, and Culture (Humanities) or Creative Arts (Fine Arts)		3
Select one of the following:		3
SPCH 1311	Introduction to Speech Communication	
SPCH 1315	Public Speaking	
SPCH 1318	Interpersonal Communication	
SPCH 1321	Business and Professional Speech	
<b>Credits</b>		<b>16</b>
<b>Total Credits</b>		<b>60</b>

<sup>1</sup> Capstone Experience: DEMR 2334 Advanced Diesel Tune-up and Troubleshooting