

HEAVY DIESEL EQUIPMENT/ CRANE TECHNICIAN, ASSOCIATE OF APPLIED SCIENCE



Program Information

If you like big engines, working with your hands, and don't mind getting a little greasy, a career as a heavy diesel equipment/crane technician is the job for you. Our graduates will be trained in maintaining and repairing some of the largest construction equipment and cranes in use.

The Heavy Diesel Equipment/Crane Technician program is designed to not only expose students to diesel engine components and hydraulics, but will also allow students to enroll in electrical classes to gain experience in the maintenance and repair of the entire piece of equipment.

A career as a diesel heavy equipment/crane technician is perfect for those who want a stable career along with a chance to problem solve and perform as part of a team. This high demand field may be especially satisfying and provide upward mobility.

Career Opportunities

Texas hires more diesel technicians than any other state. With strong ties to the Port of Houston and the greater Gulf Coast petrochemical industry, San Jacinto College's program is the industry standard. Specializing in heavy equipment and crane technology will make you more valuable to your employer. Possible job opportunities for graduates include:

- Onsite crane maintenance technician,
- Field service technician,
- Onsite heavy construction equipment mechanic, and
- Heavy equipment field technician.

Earning Potential

Crane and Tower Operators: \$71,580¹

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

For more information, students may contact Christopher Uvick, North campus at 281-459-7639.

Campus

North Campus

Information

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

3DESL-HEQ

First Year

First Term		Credits
ELPT 1321	Introduction to Electrical Safety and Tools	3
CETT 1302	Electricity Principles	3
DEMR 1306	Diesel Engine I	3
ENGL 1301	Composition I	3
DEMR 1405	Basic Electrical Systems	4
Credits		16

Second Term

DEMR 1410	Diesel Engine Testing and Repair I	4
ELPT 1315	Electrical Calculations I	3
MATH 1332	Contemporary Mathematics (Quantitative Reasoning)	3
	or MATH 1314 Reasoning or College Algebra	
DEMR 1317	Basic Brake Systems	3
Credits		13

Second Year

First Term		
DEMR 1316	Basic Hydraulics	3
DEMR 1413	Fuel Systems	4
ELPT 2319	Programmable Logic Controllers I	3
	Creative Arts (Fine Arts)	3
	Social and Behavioral Sciences	3
Credits		16

Second Term

DEMR 1423 or ELPT 2423	Heating, Ventilation, and Air Conditioning (HVAC) Troubleshooting and Repair or Transformers	4
DEMR 2432	Electronic Controls	4
DEMR 2435	Advanced Hydraulics	4
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	
Credits		15
Total Credits		60

Capstone Experience: DEMR 2435 Advanced Hydraulics