

# HEAVY DIESEL EQUIPMENT/ CRANE TECHNICIAN, LEVEL 2 CERTIFICATE



## Program Information

The Heavy Diesel Equipment/Crane Technology Level 2 Certificate will prepare students for a career in the repair and maintenance of diesel engines and the electrical components of off-road heavy equipment, cranes, forklifts, and other various equipment. Topics of study will focus on the knowledge and technical skills students need to obtain entry-level employment.

## Career Opportunities

The Texas Workforce Commission projects that Texas will need over 9,000 additional crane operators from 2020-2030.

Crane operators work in many industries including:

- Merchant wholesalers
- Iron and steel mills
- Machine shops
- Chemical Manufacturing
- Heavy and Civil Engineering Construction

## Earning Potential

Crane and Tower Operators: \$63,977<sup>1</sup>

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

For more information, students may contact North campus at 281-998-6350, x7376.

## 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

5DESL-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
ELPT 1315	Electrical Calculations I	3
DEMR 1405	Basic Electrical Systems	4
<b>Credits</b>		<b>16</b>

### Second Term

DEMR 1410	Diesel Engine Testing and Repair I	4
DEMR 1316	Basic Hydraulics	3
DEMR 1413	Fuel Systems	4
DEMR 1317	Basic Brake Systems	3
<b>Credits</b>		<b>14</b>

### Second Year

First Term		Credits
ELPT 2319	Programmable Logic Controllers I	3
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
<b>Credits</b>		<b>15</b>
<b>Total Credits</b>		<b>45</b>

Capstone Experience: DEMR 2435 Advanced Hydraulics