

# PORT FREEPORT, TEXAS



**Title: Crane Maintenance Technician**

**Class Code: et**

**Pay Grade: 119**

This Class Description does not constitute an employment agreement between the Port and an employee and the statements herein are intended to describe the general nature and level of work being performed by individuals assigned to this position. They are not intended to be an exhaustive list of all responsibilities, duties, knowledge, skills and abilities required of personnel so classified in this position. The position description is subject to change by the Port as the needs of the Port and requirements of the position change.

## **General Description**

The purpose of this job/class within the organization is to maintain and repair Ship to Shore (STS) Gantry cranes including electronics, electrical, mechanical, hydraulic, and pneumatic systems.

This job/class works under general supervision, independently developing work methods and sequences.

## **Duties and Responsibilities**

**The functions listed below are those that represent the majority of the time spent working in this job/class. Management may assign additional functions related to the type of work of the job/class as necessary.**

## **Essential Functions:**

- Maintains and repairs STS gantry cranes including electronics, electrical, mechanical, hydraulic, and pneumatic systems.
- Ability to read and understand electrical schematics.
- Ability to read and understand Programmable Logic Controller (PLC) ladder logic.
- Ability to read and understand block logic.
- Ability to read and understand hydraulic schematics.



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- Conducts inspections, testing, and troubleshooting utilizing various testing / troubleshooting equipment including but not limited to electrical multimeter, megohmmeter, electrical amprobe meter, and oscilloscope, etc. Proficient understanding and ability to use this equipment is required.
- Performs preventive maintenance on cranes. To include greasing, chipping and painting, changing crane wire ropes, renewing light bulbs, cleaning out pin and tie down sockets.
- Consults with crane control, systems manufacturers and other industry experts as needed.
- Performs expert diagnostic / troubleshooting on control and other systems.
- Operates heavy equipment for repairs or needs as needed.
- Conducts general janitorial services, hooks up fresh water for vessels, empties trash cans, and picks up trash.
- Follows all Port safety and security practices, procedures and policies
- Ability to weld desirable but not required.
- Ability to use oxygen/acetylene torch desirable but not required.

## **Additional Duties:**

Must be willing and available to work overtime outside normal business hours, on weekends and holidays, as needed. Vessel schedule dictates work hours and are subject to change on a regular basis.

Assist with cargo operations as directed.

Performs related work as assigned.

Assist in nonhazardous spill cleanup and waste handling operations as needed.

## **Responsibilities, Requirements and Impacts**

### **Data Responsibility:**



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*Data Responsibility refers to information, knowledge, and conceptions obtained by observation, investigation, interpretation, visualization, and mental creation. Data are intangible and include numbers, words, symbols, ideas, concepts, and oral verbalizations.*

Computes or performs arithmetic operations using data or information.

## **People Responsibility:**

*People include co-workers, workers in other areas or agencies and the general public.*

Speak or signal to people to convey or exchange information of a general and/or specific nature.

## **Asset Responsibility:**

*Assets responsibility refers to the responsibility for achieving economies or preventing loss within the organization.*

Requires responsibility and opportunity for achieving moderate economies and/or preventing moderate losses through the management of assigned areas of responsibilities; handling supplies of high value consistent with the operation of a small division or department.

## **Mathematical Requirements:**

*Mathematics requires the use of symbols, numbers and formulas to solve mathematical problems.*

Use basic algebra involving variables and formulas and/or basic geometry involving plane and solid figures, circumferences, areas, and volumes. Calculates circuits, loads, voltage and amperage.

## **Communications Requirements:**

*Communications involves the ability to read, write, and speak.*



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Reads technical instructions, procedures manuals, and charts to solve practical problems such as assembly instruction for tools, routine office equipment operating instructions, and methods and procedures for investigations, and in drawing and layout work; composes routine reports and specialized reports, forms, and business letters, with proper format; speaks in compound sentences using normal grammar and word form.

## **Judgment Requirements:**

*Judgment requirements refer to the frequency and complexity of judgments and decisions given the stability of the work environments, the nature and type of guidance, and the breadth of impact of the judgments and decisions.*

Responsible for guiding others, requiring frequent decisions, affecting the individual, co- workers, and others whom depend on the service or product; works in a somewhat fluid environment with rules and procedures but many variations from the routine.

## **Complexity of Work:**

*Complexity addresses the analysis, initiative, ingenuity, concentration and creativity, required by the job and the presence of any unusual pressures present in the job.*

Performs skilled work involving rules/systems with almost constant problem solving; requires normal attention with short periods of concentration for accurate results and occasional exposure to unusual pressure. Reads and interprets electrical schematics to resolve problems and plan workscope.

## **Impact of Errors:**

*Impact of errors refers to consequences such as damage to equipment and property, loss of data, exposure of the organization to legal liability, and injury or death for individuals.*

Property Damage & loss of life – **Serious**

Data loss – Minor

Exposure to legal liability – Moderate

Brand loss - Minor

Economic loss – **Serious**

## **Physical Demands:**



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*Physical demands refer to the requirements for physical exertion and coordination of limb and body movement.*

Performs medium to heavy work that involves walking, standing, stooping, lifting, digging, pushing and raising objects and also involves exerting between 20 to 50 pounds of force on a regular and recurring basis and 50 to 100 pounds of force on an occasional basis. Works safely at heights of up to 250 feet of grade.

## **Equipment Usage:**

*Equipment usage involves responsibility for materials, machines, tools, equipment, work aids, and products.*

Leads or handles machines, tools, equipment or work aids involving moderate latitude for judgment regarding attainment of a standard or in selecting appropriate items.

## **Unavoidable Hazards:**

*Unavoidable hazards refer to the job conditions that may lead to injury or health hazards even though precautions have been taken.*

Involves routine and frequent exposure to electrical shock, heights, potential exposure from release or other incidents from surrounding industry;  
Adverse weather conditions - extreme heat and/or cold; Wet or humid conditions;  
Extreme noise levels, Animals/wildlife; Traffic; Moving machinery.

## **Safety of Others:**

*Safety of others refers to the level of responsibility for the safety of others, either inherent in the job or to ensure the safety of the general public. **(Does not include safety of subordinates).***

Position requires considerable responsibility for the safety and health of others and/or continuous enforcement of the laws and standards of public health and safety.



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## **Minimum Education and Experience Requirements:**

The preferred way to obtain the minimum knowledge, skills and abilities to perform the essential duties and responsibilities of this position are listed below. The Port reserves the right to allow substitutions in the event that a candidate or incumbent exceeds requirements in one area but may be deficient in another.

Requires an Associate's Degree or specialized courses/training equivalent to satisfactory completion of two years of college in electrical systems or closely related field.

Requires two years' experience in electrical repairs and maintenance or closely related experience.

## **Special Certifications and Licenses:**

First Aid/CPR/AED (American Heart Certifications preferred)

Valid TX State driver's license.

Valid TWIC certification.

Must be able to pass a background check

## **Americans with Disabilities Act Compliance**

Port Freeport is an Equal Opportunity Employer. The ADA requires the Port to provide reasonable accommodations to qualified persons with disabilities. Prospective and current employees are encouraged to discuss ADA accommodations with management.

## **Emergency Management Responsibilities**

During emergency conditions, all Port employees are subject to being called to work in the event of a disaster, such as a hurricane, or other emergency situation and are expected to perform emergency service duties, as assigned.

## **Organization-wide Employee Responsibilities**

All employees must establish and maintain effective working relationships with the general public, co-workers, elected and appointed officials and members of diverse cultural and linguistic backgrounds, regardless of race, color, religion, gender, national



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origin, age, marital status, political affiliation, familial status, disability, sexual orientation, pregnancy, or gender identity and expression.

