



## JOB DESCRIPTION

**Job Title:** Electronic Mechanical Technician

**FLSA Status:** Hourly Non-Exempt

**Reports to:** EMT Foreman

**Department:** Crane Maintenance

**Location:** Garden City

### JOB OVERVIEW:

Under the supervision of the EMT Foreman, the Electronic Mechanical Technician inspect, services, and repairs electrical, electronic, mechanical, and hydraulic systems for cranes and RTG's. Upholds the values of the GPA to promote Safety, Integrity, Respect, Community, Creativity and Opportunity. Promotes a safe work environment by participating in safety initiatives and reporting unsafe conditions and behaviors.

### JOB DUTIES AND RESPONSIBILITIES:

1. Performs emergency response to operations requests to immediately repair disabled container and RTG cranes. Identifies problem and implements necessary corrective action to repair cranes or associated equipment. Operates cranes/heavy equipment as necessary for repairs.
2. Inspects, repairs, and performs preventive maintenance on DC and AC circuits, DC and AC motors, DC and AC drive systems, generators, alternators, programmable logic controllers, limit switches, lights, resistor banks, wiring and alarm systems, fiber-optic cables, load cell systems, hydraulic systems, and diesel engines.
3. Performs set-up, tuning, and calibration of AC and DC drive systems per original equipment manufacturer's recommendations.
4. Reads and understands electrical, electronic, mechanical, and hydraulic drawings and schematics, makes necessary changes to schematics and wiring diagrams to reflect as-built or as-modified conditions.
5. Inspects, troubleshoots, and repairs electrical, electronic, mechanical, and hydraulic systems on the cranes.
6. Installs conduit and wiring as necessary for installation of equipment modifications or for new equipment installations.
7. Assists Crane Maintenance Mechanics or Crane Operations personnel when necessary.
8. Plans, selects, and orders materials, tools, and equipment necessary for jobs.
9. Willing and able to repair equipment to eliminate the cause of downtime and its recurrence. Consult with supervisor and set-up preventive maintenance procedures. Capable of resolving all problems relating to electrical parameters.

*Mission: To empower entrepreneurs, strengthen industries, sustain communities, and fortify families by relentlessly striving to accelerate global commerce.*

10. Assist in the training of other employees on the finer points of electrical theories and practices requiring the highest skill and knowledge.
11. Maintains a safe, clean, and environmentally acceptable working environment.
12. Performs other duties as assigned.

## JOB REQUIREMENTS:

### **Knowledge, Skills and Abilities:**

Thorough understanding of DC and AC circuitry, DC and AC drive systems systems, generators, programmable logic controllers, fiber-optic technology, and load cell systems. Ability to disassemble, inspect and make necessary repairs on DC motors, AC motors, DC and AC drive systems, generators, alternators, programmable logic controllers, fiber-optic cables, and load cell systems. Familiar with necessary techniques to troubleshoot hydraulic systems and diesel engines. Thorough understanding of and ability to read blueprints and schematic diagrams required.

Thorough knowledge of industrial electronic diagrams and their symbols and meanings necessary. Ability to use a systematic troubleshooting technique that will quickly isolate and find troubles in cables, wiring, relays, regulators, power supplies, DC and AC drive systems, and brake systems as necessary. Proficiency in the use of electronic test equipment, multimeters, oscilloscopes, chart recorders, cable testing devices and other required instruments, essential. Must willing and able to climb and work at high elevations.

Vision requirements: Visual acuity of 20/40 with or without corrective lenses for each eye, minimum depth perception of 6/9, and minimum peripheral vision of 70 degrees for each eye. The ability to interact and communicate effectively and professionally with the GPA staff on all levels of administration including immediate supervisor, management and co-workers required.

### **Education and/or Experience:**

High school diploma or equivalent required. Military, certified vocational technical school training, or extensive industrial experience in electrical or electronics desired. Experience in an electrical/electronics field required, experience on container cranes desired, and extensive knowledge of solid-state troubleshooting techniques required. Electrical/electronic technology associate or engineering degree desired.

### **Other Requirements:**

Must meet the criteria for and obtain a Transportation Worker Identification Credential (TWIC). Valid state driver's license required.

Note: This job description is not necessarily an exhaustive list of all duties, responsibilities, job requirements or working conditions associated with the job. Management reserves the right to revise the job or to require the performance of different or additional tasks. The employee must be able to perform the essential functions of the job, with or without reasonable accommodation, and without direct threat to the health or safety of others. 6/2021

**Mission: To empower entrepreneurs, strengthen industries, sustain communities, and fortify families by relentlessly striving to accelerate global commerce.**