

# MARINE ELECTRICIAN

**Location: Cape May-Lewes Ferry, Cape May, NJ**

**Salary: \$38.89 per hour (\$80,898 annualized)**

**Opening Date: January 1, 2025**

**Closing Date: Until Filled**

## **I. POSITION SUMMARY**

The Marine Electrician troubleshoots, repairs, and performs installations of electrical equipment and systems on board Authority vessels, shore-tie installations, and other shore side facilities. This position is responsible for following established safety practices while performing assigned duties to protect self, co-workers and the public from personal injury and to prevent damage to Authority property. This position is a bargaining unit position that is represented by the Marine Engineers' Beneficial Association.

## **II. ESSENTIAL DUTIES AND RESPONSIBILITIES**

- Design, install, diagnose problems, and service electrical system components
- Diagnose and repair electro-mechanical and electro-hydraulic devices or systems
- Repair and overhaul electric motors and controllers
- Take periodic measurements of electrical devices for ABS and Coast Guard
- Install or maintain shipboard sound powered phone systems
- Repair and maintain normal and emergency power distribution switchboards, electrical generators, and all other shipboard power distribution components
- Maintain a clean and safe work area
- Assist other skilled employees in their craft
- Equipment Used in Job Performance:
  - All types of mechanical and pneumatic hand tools
  - Drill presses, electric drills and grinders hydraulic hole punches
  - Electric wire and cable strippers and crimpers, wire and cable bundling tools, arbor press
  - Motor vehicles including trucks and fork lift
  - Two-way radios, computers, soldering equipment, irons and torches
  - Assortment of electrical and electronic measuring devices necessary to make diagnosis and effect repairs

## **III. REQUIRED KNOWLEDGE, SKILLS, AND ABILITIES**

- Familiar with the use of all types of hand tools and measuring devices
- Ability to read and understand electrical schematics and blueprints
- Ability to create technical documents and briefings
- Ability to communicate verbally and in writing
- Ability to repair and troubleshoot control circuits
- Knowledge of marine electrical requirements of the USCG and ABS with regards to the Delaware River and Bay Authority vessels
- Ability to install marine cable and wiring in an approved, neat and safe manner
- Knowledge of safety precautions involved in this field
- Knowledge of the NEC, IEEE, IEC and other electrical and electronics and conventions as they apply to Authority vessels

#### **IV. REQUIRED EDUCATION AND EXPERIENCE**

- High School diploma or equivalent or equivalent related experience
- Experience working with shipboard electrical systems
- Experience working on vessels certificated by the USCG under Title 46 CFR Subchapters H or I preferred

#### **V. LICENSES, REGISTRATIONS, AND/OR CERTIFICATES**

- Valid driver's license
- Must apply for and receive Merchant Mariner Credential (MMC) and Transportation Worker Identification Card (TWIC) within 90 days of employment
- Must be willing to attend and successfully complete the following training and obtain required licensing for the following:
  - F.C.C. General Radio Telephone License with Radar Endorsement
  - Sperry Gyro Training
  - Sperry Radar/Radar Unit Training
  - Sperry Antenna

#### **VI. SPECIAL REQUIREMENTS**

- Subject to background investigation and pre-employment physical including drug test
- Delaware River and Bay Authority requires all employees to have direct deposit with a financial institution or enroll in the payroll card program to receive their biweekly pay
- Must be willing and available for duty at such hours, day or night, as may be required in order to maintain continuous operation of this facility
- Must be willing to sail on vessels as needed
- Must be able to lift, carry, and transport heavy equipment and boxes (less than 20 lbs.)
- Must be able to work on high ladders, aloft, or over the side of vessels
- Must be able to work in extreme temperatures (heat or cold) and humidity
- Must be able to work in confined spaces which require the use of a respirator

**If you are interested in applying for this position please complete the on-line application at [www.drba.net](http://www.drba.net). In addition, please attach a resume to the completed application.**

**The Delaware River and Bay Authority is an Equal Opportunity Employer**