

MARINE ELECTRICIAN

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

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

Opening Date: July 28, 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. In addition, please attach a resume to the completed application.

The Delaware River and Bay Authority is an Equal Opportunity Employer