

# NEW CASTLE COUNTY GOVERNMENT

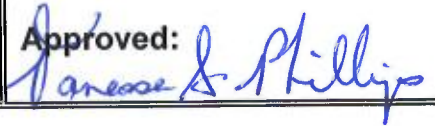
Number 0812

## CLASS SPECIFICATION

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Date 07/01/17

Title: MASTER ELECTRONICS TECHNICIAN

Approved: 

GENERAL STATEMENT OF DUTIES: Performs skilled electronic work in the installation, maintenance, diagnosis, and repair of electronic and ancillary electric equipment.

DISTINGUISHING FEATURES OF THE CLASS: An employee in this class installs, maintains, inspects, adjusts, and repairs electronic equipment. The employee responds to problems in the field, investigates and, when possible, takes immediate action to correct the problem. This employee supervises the work of electricians in the field. The incumbent receives general supervision but exercises considerable independent judgment in executing assignments.

### EXAMPLES OF WORK: (Illustrative Only)

- Designs and installs electronic equipment and electronic circuitry such as flowmeters, telemetry circuits, engine generator controls, electronic drives, security systems, and other related equipment;
- Operates and diagnoses failures in electronic systems and circuitry;
- Repairs electronic circuitry as required;
- Performs basic design for motor and equipment controls, including level, position and pressure devices and interfaces between elements in the control scheme.
- Designs programs and operates computerized telemetry, motor starters, VFD's, RTU's and control systems for operating pumping stations and wastewater treatment plants;
- Uses diagnostic equipment such as wattmeter, voltmeter, oscilloscope, megger, and other related equipment;
- Inspects, reviews, corrects and recommends improvements to provide full compliance to the electrical safety codes and practices. Provides training and guidance on electrical safety to staff.
- Promotes an ongoing attitude of dedication to excellent public service and ensures that external and internal customers are provided with the highest quality of service;
- Operates a personal computer and other related equipment in the course of the work.

REQUIRED KNOWLEDGE, SKILLS, AND ABILITIES: Thorough knowledge of the theory and principles of electronics and electronic circuitry; thorough knowledge of AC and DC motors and controls, thorough knowledge of NEC and NFPA 70E, thorough knowledge of the use of electronic diagnostic instruments such as the oscilloscope, volt-ohmmeter, and megger; ability to read and understand comprehensive electronic schematic drawings;

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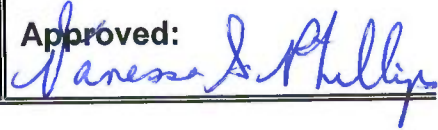
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ability to work safely in a hazardous environment; ability to understand and to carry out difficult written instructions; ability to establish and maintain effective working relations with co-workers; ability to communicate courteously and effectively, both verbally and in writing.

**MINIMUM QUALIFICATIONS:** Possession of a State of Delaware Master Electrician's license and at least five (5) years of experience working as a Master Electrician, including at least three (3) year of experience performing skilled electronics work; and possession of a trade school or high school diploma or GED.

**ADDITIONAL REQUIREMENTS:** Possession of a valid Delaware Class D driver's license or its equivalent. Must maintain State of Delaware Master Electrician's license. Must pass a Class III County physical examination and background check; must perceive the full range of the color spectrum.

Established: 07/01/17