

NEW CASTLE COUNTY GOVERNMENT

Number 0819

Page 1 of 2

CLASS SPECIFICATION

Date 06/30/12

Title: SENIOR ELECTRICIAN

Approved:



GENERAL STATEMENT OF DUTIES: Works as a skilled journey-level electrician in the installation, troubleshooting and maintenance of wiring, electrical systems, and equipment; does related work as required.

DISTINGUISHING FEATURES OF THE CLASS: An employee in this class performs skilled work involving responsibility for the performance of electrical installation, maintenance and repairs and for monitoring energy usages and energy efficiency programs. General assignments are received from supervisors, but this employee is expected to plan details of each job and carry it to completion without immediate supervision. Supervision may be exercised over the work of other employees and outside contractors, including the inspection of electrical installations and repairs.

EXAMPLE OF WORK: (Illustrative only)

- Provides electrical installation, troubleshooting, and repairs to various building automation systems including security cameras, access cards, intercom systems, motor controls, VFDs, HVAC control cabinets and life safety systems in all County facilities;
- Provides installation, troubleshooting, maintenance and repairs to include all power distribution systems and various voltages for elevators, UPS, ATS for generators, motor controls, and MCCs for HVAC and various electrical systems for all County facilities;
- Provides installation, troubleshooting, maintenance and repair to Medium Voltage Unit Substation and Switchgear ranging from 13KV-33KV, and all power distribution panels in all County facilities;
- Establishes a data base of all electrical equipment for each County facility;
- Performs electrical preventive maintenance on all electrical systems using Infrared Thermal Imaging Camera for Substations and Switchgears ranging from 13KV-33KV, and various electrical panels and systems in all County facilities. Makes the necessary repair when possible and collects data and pictures from the camera to set up proper documentation for each electrical system scanned;
- Maintains telemetry equipment and instrumentation equipment, including RF systems;
- Investigates and troubleshoots electrical and control problems;
- Provides general electrical repairs as needed including, but not limited to wiring new and existing buildings in accordance with National Fire Protection Agency safety guidelines and National Electrical Code rules and regulations;

NEW CASTLE COUNTY GOVERNMENT

Number 0819

CLASS SPECIFICATION

Page 2 of 2

Date 06/30/12

Title: SENIOR ELECTRICIAN

Approved:

Valencia Y. Seay

- Provides installation, troubleshooting and repairs to lighting in ball field parks and facilities;
- Provides installation, troubleshooting, maintenance, repairs and programming of PLC and motor control systems;
- Provides installation, maintenance and inspections to standby emergency generator in all county facilities;
- Provides minor programming changes for PLCs and computerized controls;
- Trains subordinates in electrical, electrical safety and control work;
- Responds to after-hour emergency calls;
- Promotes an ongoing attitude of dedication to excellent public service and ensures that internal and external customers are provided the highest level of service;
- Operates a personal computer and other related equipment in the course of the work.

REQUIRED KNOWLEDGE, SKILLS AND ABILITIES: Strong working knowledge of the National Electrical Code and National Fire Protection Agency standard practices, tools and terminology of the electrical trade; ability to read blueprints, specifications, and schematics; ability to make repairs to electrical wiring, motor controls and PLCs; thorough knowledge of electrical safety practices; ability to perform manual work.

MINIMUM QUALIFICATIONS: Possession of a State of Delaware Master Electrician's license.

ADDITIONAL REQUIREMENTS: Possession of a valid Delaware Class D driver's license or its equivalent. A commercial driver's license Class A (CDL-A) is required for some positions and must be obtained during the probationary period. 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. Possession of a Level I Infrared Thermography Certification is required for some positions.

HISTORY OF REVISIONS:

Established: 08/24/10
Revised: 01/24/11
Revised: 06/30/12