

CLASS SPECIFICATION
County of Fairfax, Virginia

CLASS CODE: 6554

TITLE: INDUSTRIAL ELECTRICIAN III

GRADE: S-21

DEFINITION:

Under general supervision, serves as a highly skilled master level electrician, leading industrial electricians in the installation, modification, maintenance and repair of high voltage industrial electrical systems, controls and equipment for a large 24/7 wastewater treatment plant, pumping stations, waste transfer stations, flare stations, flow metering stations and other electrical equipment throughout the County; and performs related duties as required.

DISTINGUISHING CHARACTERISTICS OF THE CLASS:

This class performs skilled master level work, includes lead work and in the absence of the Supervisor may temporarily assume higher-level supervisory duties. This class requires a Master Electrician's license.

ILLUSTRATIVE DUTIES:

(The illustrative duties listed in this specification are representative of the class but are not an all inclusive list. A complete list of position duties and unique physical requirements can be found in the position description.)

Troubleshoots the most complex high voltage equipment, control and power system failures to determine the cause and corrective action required;
Installs, maintains, and repairs electrical systems and equipment up to 5000 volts and 4000 amps;
Makes necessary repairs and replacements, and tests effectiveness of corrective action;
Troubleshoots, repairs and/or installs main switchboards, main and branch circuits breakers, disconnects and wiring devices such as switches, convenience receptacles and dedicated receptacles, possibly without the aid of a blueprint or schematic because of equipment age;
Leads and performs major or complex installations and repair projects;
Performs predictive and preventive maintenance in accordance with manufacturer recommendations on electrical equipment;
Utilizes computerized maintenance management system to maintain records of work required, work performed, work hours and repair parts and materials used;
Plans, assigns and oversees the work of more junior industrial electricians as well as daily training of the less experienced industrial electricians and provides input to Supervisor for performance appraisals;
Responsible for compliance with safety standards and regulations on the assigned shift and work station;
Performs work in a safe manner according to all regulations, participates in safety training, and reports unsafe conditions.

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REQUIRED KNOWLEDGE, SKILLS, AND ABILITIES:

(The knowledge, skills and abilities listed in this specification are representative of the class but are not an all inclusive list.)

Thorough knowledge of the standard practices, tools, and equipment of the electrical trade;

Thorough knowledge of applicable county, state and national electrical, NFPA and safety codes;

Ability to read and interpret diagrams, schematics, blue prints and manuals;

Knowledge of PC's, SCADA systems and SCADA diagnostic measures;

Ability to train and supervise subordinates, less experienced industrial electricians and employees from other sections;

Thorough knowledge of safety regulations and procedures as well as common hazards and precautionary methods for working with electricity.

EMPLOYMENT STANDARDS:

Any combination of education, training, and experience equivalent to the following:

Graduation from high school, or a GED issued by a state department of education or equivalent and six years of experience as an industrial electrician.

CERTIFICATES AND LICENSES REQUIRED:

Must have and maintain a valid Motor Vehicle Driver's License.

Must have and maintain a valid Commonwealth of Virginia Master Electrician's license.

Possession of a valid Air-Conditioning & Refrigeration Institute Certificate (ARI) and Confined Space Certification may be required for certain positions as identified to the Department of Human Resources.

NECESSARY SPECIAL REQUIREMENTS:

Subject to 24 hour call back and must, therefore, be able to work emergency overtime.

Subject to working in adverse weather conditions and may be exposed to raw waste.

Ability to distinguish different color wiring.

REGRADED:	August 23, 2010
REVISED:	April 10, 2009
REVISED:	August 31, 2006
REVISED:	January 24, 2001
ESTABLISHED:	December 7, 1987