

**CLASS SPECIFICATION**  
**County of Fairfax, Virginia**

**CLASS CODE:** 6555

**TITLE:** INDUSTRIAL ELECTRICIAN II

**GRADE:** S-19

**DEFINITION:**

Under general supervision, serves as a skilled journey level industrial electrician, performing work on 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 journey level work and requires a Journey 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 high voltage industrial 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 circuit 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;

Performs predictive and preventive maintenance in accordance with manufacturer recommendations on electrical equipment;

Creates work orders, requisitioning of equipment, parts, documentation, and time and attendance approvals on computers;

Troubleshoots, repairs, and installs Variable Frequency Drives;

Performs routine start-up and testing of emergency generators;

May oversee work of Industrial Electrician I;

Performs work in a safe manner according to all regulations, participates in safety training, and reports unsafe conditions.

**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 standards, practices and equipment of the electrical trade;

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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;

Knowledge of safety regulations and procedures as well as common hazards associated with 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; successful completion of an approved electrician's apprentice program and four 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 Journeyman Electrician's license.

Possession of a valid 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 or environments generating methane gas.

Ability to distinguish different color wiring.

REVISED:	April 21, 2009
REVISED:	August 31, 2006
REVISED:	January 24, 2001
ESTABLISHED:	December 7, 1987