DEFINITION
Under supervision of the Facility Maintenance Supervisor, repairs, maintains, inspects, troubleshoots, tests, fabricates and installs high and low voltage circuits, motors, controls and electrical equipment used in the District's water production, treatment and distribution systems and administrative facilities; may direct the work of sub-journey level employees, ensuring that proper safety precautions are observed; and performs other related work as required.

DISTINGUISHING CHARACTERISTICS
The Electrician is a journey level classification. Under general supervision within a framework of established policies and procedures, incumbents perform a broad range of difficult and complex duties concerned with the maintenance, inspection, troubleshooting, testing, repair and installation of electrical equipment and systems that may require skills in all specialties within the trade. Assignments are given in general terms and are subject to periodic review while in progress and upon completion. There is considerable latitude for initiative, independent judgment and action within established guidelines.

This classification is distinguished from the Facilities Maintenance Supervisor classification which supervises preventive, predictive, corrective and emergency maintenance activities including the repair and installation of equipment and materials used in the production, treatment and distribution of water.

TYPICAL DUTIES
TYPICAL EXAMPLES OF DUTIES MAY INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:

- Maintains, repairs, installs, tests, troubleshoots low, medium and high voltage electrical equipment, circuits, transformer switches, lighting fixtures, motors, outlets, control panels, electrical components of process control telemetry, cathodic protection systems, emergency power generation, life safety systems, fiber optic and Ethernet communications equipment and related equipment.

- Installs, inspects, troubleshoots, cleans, lubricates, replaces bearings, brushes and makes other repairs to electrical motors, including VFD drives using a variety of shop equipment.

- Installs conduit and pulls wire for motors, control panels, lighting fixtures, outlets and other purposes. Makes cable splices of various sizes and difficulty as required.

- Inspects and tests equipment and electrical devices for proper operation, control and safety.

- Performs trouble shooting and diagnostic work on a variety of electrical equipment and determines needed repairs or modifications that may require the use of a lap top and understanding of PLC logic.
Electrician

- Interprets diagrams and schematics, performs work according to drawings, and creates as-built drawings of electrical installations.
- Reviews and makes recommendations of new facilities electrical systems and components.
- Keeps records and makes oral and written reports of work performed.
- May direct the work of sub-journey level employees, ensuring that proper safety precautions are observed.
- Estimates labor, materials and supplies required to perform specific assignments.
- Assists other trades and performs other related work as required.

REQUIREMENTS
Any combination of education and experience that would likely provide the required knowledge, skills, and abilities is qualifying. A typical way to obtain the knowledge, skills, and abilities would be the equivalent of:

Education and Experience:
High school diploma or equivalent and five (5) years experience as an electrician, three years of which must be at journey-level proficiency in general and industrial electrical installation and repair work, with work experience sufficient to handle District assignments.

Knowledge, Skills and Abilities:
Working knowledge of: codes, standard terms, practices and modern methods common to the electrical trade; the use and safe operation of measuring and testing devices, hand tools and equipment of the trade; industrial controls and equipment; the National Electrical Code and the National Fire Protection Association 70E, Standard for Electrical Safety in the Workplace; the principles of low, medium and high voltage electrical safety, installation, maintenance, operation and testing; and pertinent federal, state and local codes, laws and regulations.

Skill and Ability to: plan, lay out and safely execute general and industrial electrical work; install, maintain and repair electrical wiring, motors, motor control centers, transformers, switch gear and other electrical equipment; read and interpret wiring diagrams and specifications; safely and skillfully operate hand and power tools and equipment common to the trade; keep records and make reports; make estimates of labor and materials; train and direct the work of sub-journey level employees; effectively operate computer and work-related software; establish and maintain effective working relationships with those contacted in the course of the work; and perform the essential functions of the job without causing harm to self or others.

Additional Requirements:
- Must possess a valid California driver's license and have a satisfactory driving record
- Possession of a valid journey level certification issued by the State of California is desirable.

Working Conditions/Physical Requirements:
The essential duties of this classification are primarily performed outdoors under various climatic and geographic conditions and occasionally in a shop environment and require the ability to work after hours in response to emergencies and on a stand-by schedule on a rotation basis; to remain clean shaven as required to wear respiratory equipment; to work in an environment with exposure to high frequency and constant noise, dust, allergens, chemicals, solvents, fumes, smoke, gases, grease, and oil; to regularly perform duties in water, on uneven and slippery surfaces, below ground, in confined spaces, on ladders and/or scaffolding, around moving vehicles and equipment and on equipment with moving parts and subject to continuous vibration.

The essential duties of this classification require repetitive use of feet and hands to operate vehicles, equipment and tools; the ability to wear, don, and doff a self-contained breathing apparatus; to feel the attributes of objects by touch; to verbally exchange ideas and information; to hear to receive verbal detailed information and instruction; to see at arms length to twenty feet with a good field of vision and to distinguish basic colors; to maintain body equilibrium to prevent falling when walking, standing or crouching on narrow, slippery or moving surfaces; to climb stoop, kneel, crouch, reach, stand, and walk on a sustained basis; to lift and carry tools and equipment and to push and pull objects weighing between 25 to 75 pounds; and finger dexterity and hand strength to operate and grasp tools and equipment.

Revised: 07/12

Approved: [Signature]
Human Resources/Risk Manager