

CLASS TITLE: ELECTRICIAN II

PURPOSE OF THE CLASSIFICATION: Under general supervision is responsible for skilled repair, design, modification, fabrication, and installation of electrical controls, electrical systems and equipment, and/or airport lighting and Nav aids systems, and other related assigned duties.

ESSENTIAL TASKS:

- Designs, fabricates, installs, maintains, repairs, and troubleshoots traffic signal control cabinets, large and small, high and low voltage electric motors, electrical poles and masts, switches, cables, controllers, electronic equipment, and/or runway lighting, Nav aids, and electrical distribution panels in accordance with the national electrical code
- Installs, maintains, and repairs electrical/mechanical systems at various City facilities
- Reviews submitted electrical blueprint diagrams and draws blueprints of manufactured electrical systems
- Sets up, troubleshoots, repairs, and dismantles electrical/mechanical systems and equipment at various trade shows, conventions, meetings, and sporting events
- Installs, operates, and maintains two and three-stage pumping stations of various complexity
- Assembles traffic signal heads and fittings
- Repairs, calibrates, and modifies electronically controlled systems in the field
- Troubleshoots faulty and damaged electrical and electronic equipment
- Diagnoses and repairs complex electrical and electronic systems and modifies during emergencies
- Establishes and maintains service and circuit lines
- Assists in troubleshooting, testing, and problem diagnosis of electrical controls, motors, motor starters, and Maintenance Monitor Computer (MMC)
- Maintains a 13,200 voltage distribution system
- Reports and corrects violations of the national electrical code
- Operates a variety of light and heavy automotive equipment
- Purchases major equipment and maintains inventory control of repair stock and supplies for equipment
- Makes time and cost material estimates to upgrade electrical/electronic systems
- Ensures compliance of safety practices and procedures on worksite
- Keeps various log books and records of repairs and completed tasks and processes work orders
- Inspects pump stations, reservoirs, tanks, and work performed by contractors to ensure electrical codes are met
- Uses megohmmeter, amprobe, multimeter, ground fault locator and various other electrical testing devices
- Performs preventive maintenance on all electrical systems
- Prepares various reports and maintains inventory
- May supervise and/or lead a small number of employees in same or lower classifications

Reasonable accommodations may be made to enable individuals with disabilities to perform the essential tasks.

QUALIFICATIONS:

Training and Experience: Graduation from high school or possession of a General Educational Development Certificate (GED), and four (4) years of progressively responsible experience in electrical construction, maintenance, or quality control assembly and diagnostic work; or an equivalent combination of training and experience per Personnel Policies and Procedures, Section 128

Knowledge, Abilities, and Skills: Comprehensive knowledge of the standard practices, materials, tools, and equipment of the electrical trade; good knowledge of electronic circuitry and the principles, tools, and equipment used in its repair and maintenance; some positions require considerable knowledge of the installation, maintenance, repair, and testing of Airport Lighting and Navigational Aid Systems; some positions require good knowledge of computer operations; and good knowledge of occupational hazards of the electrical trade and appropriate precautionary measures. Ability to work from blueprints, diagrams, and schematics; ability to locate and repair defects in complex electrical, mechanical, and electronic

systems and equipment; ability to work with high voltages; ability to make time and material estimates; ability to perform heavy work in adverse weather conditions for prolonged periods of time; ability to climb 178 foot high storage tanks in some positions; ability to communicate with air traffic controllers using aircraft radios in some positions; ability to locate various types of airfield lighting cables using cable locators in some positions; ability to train and supervise the work of others; and the ability to understand and influence the behavior of others within the organization, customers, or the public in order to achieve job objectives and cause action or understanding. Skill in the use and care of tools and equipment in the electrical field.

Physical Requirements: Physical requirements include standing and walking; frequent lifting and carrying up to 30 pounds; frequent pulling up to 60 pounds; and occasional lifting and carrying up to 68 pounds; constantly lifts/carries up to 10 pounds; occasional pushing up to 60 pounds; pulling/pushing a maximum force of 100 pounds peak; frequent balancing, bending, reaching, kneeling, feeling, climbing, smelling, and twisting; and vision, speech, and hearing sufficient to perform essential tasks.

Licenses and Certificates: Possession of an Unlimited Journeyman Electrician's License as issued by the State of Oklahoma; and possession of a Class "B" Commercial Driver's License (CDL) within six (6) months of hire date with applicable endorsements in some positions. Some positions within this classification also require an appropriate Water/Wastewater C License as issued by the Department of Environmental Quality (DEQ) be obtained within nine (9) months of employment.

WORKING ENVIRONMENT: Working environment is primarily outdoors and occasionally indoors, and in inclement weather. May be exposed to the following: hazardous materials, animal waste/dead animals, flammable liquids, traffic, cramped work areas, suspended catwalk areas, excessive heights, excessive dust, confined spaces, rough terrain, weather/temperature extremes, trench excavations, underground gas/electric/petroleum/water/wastewater lines, cutting/chipping/grinding, sewage, damp/wet surfaces, snow/ice covered surfaces, insect bites, poisonous plants, overhead power lines, high voltages, and high noise areas; and may be required to work overtime and be on 24 hour standby.

Class Code: 7519

EEO Code: N-07

Pay Grade: LT-19

Group: Labor and Trades

Series: Equipment and Plant Management

Effective date: July 2, 2018