

CITY OF CHATTANOOGA

Classification Specification Title: Industrial Electrician 1 (Wastewater)

Department: Wastewater

Pay Grade: WWFG.07N

Supervision Received From: Engineering Coordinator

FLSA Status: Non-Exempt

Supervisory Responsibility For: None

Established: 1/06/15

**Review Dates: 8/28/25;
4/2/25; 6/14/24; 1/03/24;
12/11/23; 10/20/23; 8/25/22**

CLASSIFICATION SUMMARY:

Incumbents in this classification are responsible for performing journey-level maintenance and repair of electrical and electronic equipment associated with wastewater, stormwater and leachate transportation, and treatment. Duties may include troubleshooting and repairing electrical equipment, performing preventative maintenance, designing and building control systems and interfaces, building and troubleshooting telemetry and radio systems, fabricating and maintaining a variety of electrical systems and providing guidance to contractors. Work requires limited supervision.

SERIES LEVEL: This is the second level of a three-level Industrial Electrician series.

ESSENTIAL FUNCTIONS:

(The following duties ARE NOT intended to serve as a comprehensive list of all duties performed by all employees in this classification, only a representative summary of the primary duties and responsibilities. Incumbent(s) may not be required to perform all duties listed and may be required to perform additional, position-specific duties.)

May serve as a lead to Industrial Electrician Apprentice staff to include assigning and monitoring work, training staff on work methods and procedures, and providing direction.

May troubleshoot and repair a wide variety of electrical equipment, utilizing a wide variety of tools and equipment including conduit benders, knock-out punches, crimping tools, high voltage sticks/gloves, band saws, drill presses, sandblasters, pipe threading equipment, welders, torches, gauges, calibration equipment, bucket trucks, motorized elevated work platforms (MEWPs), personal gas monitors, electrical metering equipment and applicable diagnostic equipment.

May design, build, install, troubleshoot, repair, calibrate and clean a wide variety of instrumentation and electrical equipment which includes Programmable Logic Controller (PLC)s, variable frequency drives, AC/DC motor starters and controls, variable speed drives, high/low voltage switch gears, circuit breakers, transformers, power supplies, interior/exterior lighting, sump pumps, level control systems, filter presses, timers and timing relays, flow meters and controllers, chart recorders and indicators, gas sensors, dissolved oxygen meters, suspended solids meters, pH meters, ampere meters, voltage meters, RPM meters and/or other related

meters, instrumentation and equipment, light fixtures, lighting control systems, SCADA systems, and generators.

May perform preventative maintenance on a variety of electrical and instrumentation equipment.

May install various pumps such as sewage, chemical and water pumps.

May perform general cleaning and maintenance on vehicles, equipment, and tools in order to maintain proper working condition which includes inspecting the equipment, checking fluid levels, replacing fluids, greasing equipment, replacing parts, and washing and cleaning equipment and shop areas.

May prepare and maintain a variety of forms, correspondence, reports, work orders, requisitions, diagrams, measurement statements and/or other applicable documentation.

May use, carry and answer cell phone calls as determined by the job duties and the Department Head.

May provide "on call" duty with 24 hour availability.

Must meet regular attendance requirements.

Must be able to maintain good interpersonal relationships with staff, co-workers, managers and citizens.

Must accomplish the essential functions of the job, with or without reasonable accommodations, in a timely manner.

Performs other duties as assigned.

This position is deemed essential during inclement weather situations, and must report to or remain at work, even when administrative closings are announced, as determined by the Department Head.

DEPARTMENT SPECIFIC DUTIES (if any):

MINIMUM QUALIFICATIONS: High School Diploma or GED and a minimum of one and a half (1.5) years' experience in electrical maintenance, electrical control maintenance, electrical preventive maintenance or electrical construction training. Associate's Degree with coursework emphasis in Electrical Maintenance, Instrumentation & Control Maintenance preferred. Or any combination of equivalent experience and education.

This is a career ladder position. This position will receive an automatic progression to Industrial Electrician 2 when the incumbent has worked in this position for two (2) years at an Electrician 1 level and has satisfactorily achieved the additional required knowledge and/or credentials for the next position in the series.

LICENSING AND CERTIFICATIONS: City of Chattanooga Board of Electrical Examiners Electrical License or Master Plant Electrician License within twenty-four (24) months of hire (until a Journeyman Electrical license is issued, incumbents will work under the supervision of Journeyman Electrician. Driver's License (Class D).

SUPPLEMENTAL INFORMATION:

Knowledge of fundamentals of electricity including their application to the operation of high voltage substation equipment; electrical circuits; applicable tools and equipment of the trade; industrial safety practices and procedures; high voltage electrical systems, branch circuits and distribution systems up to 600 volts, utility distribution systems up to 12,000 volts; electrical programming, low and high voltage test equipment; plant Uninterrupted Power Supply (UPS) and Direct Current (DC) systems; electro-pneumatic, electro-hydraulic and electro-mechanical systems; National Electrical Codes, City of Chattanooga's Electrical Codes; NFPA70E knowledge and practices, OSHA regulations, lock out tag out (LOTO), personal protective equipment, motor theory, maintenance, and alignment practices; electrical theory; basic mechanical systems; underground utilities; and work zone safety practices and principles.

Skill in using a computer and related software applications; troubleshoot electrical problems in an industrial facility; installing, maintaining, and repairing electrical conduit, wiring, and controls; utilizing applicable tools and equipment of the trade; and, communication and interpersonal skills as applied to interaction with coworkers, supervisor, and the general public, sufficient to exchange or convey information and to receive work direction.

PHYSICAL DEMANDS: Positions in this class typically require: climbing, balancing, stooping, kneeling, crouching, crawling, reaching, standing, walking, pushing, pulling, lifting, fingering, grasping, feeling, talking, hearing, seeing and repetitive motions.

WORK ENVIRONMENT: Medium Work: Exerting up-to 50 pounds of force occasionally, and/or up-to 20 pounds of force frequently, and/or up-to 10 pounds of force constantly to move objects. Incumbents may be subjected to raw sewage, potentially infectious bodily fluids (OPIM), moving mechanical parts, electrical currents, vibrations, fumes, odors, dusts, gasses, poor ventilation, biohazards, chemicals, oils, extreme temperatures, inadequate lighting, confined spaces, and workspace restrictions.

SPECIAL REQUIREMENTS:

Safety Sensitive: Y

Department of Transportation - CDL: N

Child Sensitive: N

The City of Chattanooga, Tennessee is an Equal Opportunity Employer. In compliance with the Americans with Disabilities Act, the City will provide reasonable accommodations to qualified individuals with disabilities and encourage both prospective and current employees to discuss potential accommodations with the employer.

