

ELECTRONIC EQUIPMENT TECHNICIAN 2

Job Code	Pay Grade
17246	CL16

Nature of Work

This is the most complex and advanced level work performing as an electronic equipment technician. Work specializes in the installation, repair, and maintenance of electronic instrumentation and control for: county properties, facilities, equipment and lines or devices in public utilities or transportation control systems, electronic equipment used in production treatment and transmission of potable water, wastewater and distribution of reclaimed water, electronic equipment used in control of traffic signals, and Intelligent Transportation System (ITS) devices. Position operates light to heavy equipment within operation divisions, often requiring manipulative ability as well as utilizing job-acquired skills in specialized fields. This position differs from other electronic positions in that incumbents will be expected to be or become proficient in all aspects of the position. Incumbents may be required to perform in different but specific assigned areas from project to project, as business needs and skills match. Additionally, the wide variety of equipment utilized is more complex and specialized, requiring adaptability and ability to work independently. An incumbent may continue to perform Electronic Equipment Technician 2 functions for an indefinite time or non-competitively advance to Electronic Equipment Technician, Senior at the discretion of the appointing authority. The incumbent is supervised by a manager, plant operations supervisor or designee.

Minimum Qualification Requirements

- Completion of a 2 year certification program and 1 year directly related vocational or technical training, or 3 years of highly automated computer based electronics instrumentation installation, maintenance and repair experience; or
- An equivalent combination of education, training, and/or experience.

Appointing Authority May Also Require

- Florida Driver's License or Florida Commercial Driver's License and endorsement, if any.
- Assignment to work a variety of work schedules including compulsory work periods in special, emergency, and/or disaster situations.
- Candidate to demonstrate more advanced proficiency, competency, and satisfactory completion of regularly assigned work in an independent manner. Appointing Authority retains discretion to employ an incumbent at this level or advance the incumbent non-competitively or competitively, after a candidate meets the minimum qualifications to an in-line career ladder position within the same organization or department.
- Employee to acquire and maintain certification in designated areas according to area of assignment.
- Other highly desirable knowledge, skills, abilities, and credentials relevant to a position.

Illustrative Tasks (These are examples and are not all inclusive.)

- Performs installation, maintenance, modification, calibration and repair of electronic and electrical instrumentation, equipment and control systems.
- Exercises lead worker responsibility over others on project basis or as assigned.
- Detects causes of electronic and electrical failures, interprets and ensures compliance with established codes, calculates data necessary for wiring instrument systems and requisitions supplies and materials needed to complete tasks.
- Troubleshoots, repairs, and programs new ITS equipment such as fiber and wireless IP based communications equipment, various vehicle detection systems and dynamic message boards.
- Trains lower level technicians and staff in all phases of a variety of electronic and electrical instrumentation, equipment and control systems,
- Provides technical advice and assistance and acts in a lead worker capacity.
- Inspects instrumentation and equipment to determine operating conditions and needed repairs and modifications.
- Performs bench work repairs and overhauls and rebuilds complex electronic or electrical equipment.
- Performs emergency and routine field servicing of complex equipment and performs tests on parts, modules or assemblies.

ELECTRONIC EQUIPMENT TECHNICIAN 2 (continued)

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Illustrative Tasks (continued)

- Prepares purchase orders to obtain parts for repairing equipment and arranges for repairs beyond the scope of county facilities.
- Assists with operation and maintenance of lift stations.
- May have some responsibility for electronic traffic control and equipment for the design, placement and maintenance of traffic control devices utilized under extremely heavy traffic and during inclement weather.
- Performs basic recordkeeping.
- Operates automotive and heavy equipment.
- Performs preventive maintenance to water and wastewater treatment equipment in accordance with Preventive Maintenance Program.
- Performs related work as assigned or required.

Knowledge, Skills, and Abilities

- Knowledge of principles, procedures and practices of electronic and electrical repair work.
- Knowledge of complex installation, modification, fabrication, repair and maintenance of electronic and/or electrical equipment used in water plant and/or wastewater plant operations.
- Knowledge of types of potable water and wastewater handling equipment (motors, valves, pumps, electronic sensors).
- Knowledge for controlling the production and distribution of potable water or wastewater treatment processes.
- Knowledge of methods, practices, techniques, materials, tools and equipment pertinent to installation, maintenance and repair of electronic traffic signal equipment.
- Knowledge of the principles, practices, methods, materials, equipment and tools used in the construction of traffic signal control intersections and installation of traffic signals, control equipment, electrical lines and interconnect systems.
- Ability to train and lead teams in potable water and/or wastewater treatment systems maintenance and repairs.
- Ability to interpret engineering plans and diagrams, as well as write a wide variety of work orders and administratively related reports.
- Ability to independently maintain, troubleshoot, and repair complex electronic equipment and control systems used in utilities operations such as pumps, SCADA or similar radio/telemetry devices, control panels, generators, transfer equipment, switch gear systems and similar apparatus.
- Ability to perform a combination of skilled trades' tasks including those in fields of electrical, plumbing, mechanical, welding and other trades required to maintain, repair, and improve potable water and wastewater operations.
- Ability to adjust and regulate a variety of automatic or manually controlled auxiliary equipment or systems to ensure safe operations.
- Ability to anticipate and adjust systems due to changing factors, e.g., water quality, weather, and other factors.
- Ability to repair and replace electronics controls, filters, pumps, valves, generators, mixers, filling machines and equipment used in monitoring and handling potable water and wastewater processes and operations.
- Ability to understand and follow oral and/or written instructions.
- Ability to establish and maintain effective working relationships with managers, supervisors, employees and others.
- Ability to use computers in daily activities.

For official use only

Revised	EEOC Code	Overtime Code
9/13	Technicians	Classified