

ELECTRICAL/MECHANICAL TECHNICIAN, SENIOR

Job Code	Pay Grade
17236	CL18

Nature of Work

This is the most complex advanced electrical/mechanical work performed. Work specializes in the installation, modification, fabrication, repair, and maintenance of electrical and/or heavy mechanical equipment and systems. Work may require utilization of knowledge in various trades such as electrical, plumbing, welding, and other skills, to locate and correct malfunctions and for improvement of heavy industrial pumping systems and facilities. Specializes in operation, monitoring, maintenance and/or repair of county properties, facilities, equipment, and lines or devices in public utilities systems, electrical and mechanical equipment used in production treatment and transmission of potable water, wastewater and distribution of reclaimed water as they relate to utilities projects, operation of light to medium equipment for utilities construction and maintenance projects, and often requiring manipulative ability, as well as utilizing job-acquired skills in specialized fields in addition to traffic control and equipment for the design, placement and maintenance of traffic safety devices utilized under extremely heavy traffic and during inclement weather. 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. Progression to this level is via competitive route. The incumbent is supervised by a manager, plant operations supervisor, or designee.

Minimum Qualification Requirements

- 5 years of journeyman experience in the maintenance and repair of heavy mechanical equipment and machinery, and electrical repair and maintenance of equipment used in water or wastewater treatment plants, and 1 year of supervisory experience or training; 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 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.)

- Manages or supervises all plant and equipment repair and maintenance activities performed on electrical, chemical, and mechanical equipment at all pump stations, lift stations, wastewater treatment plants, water treatment plants and reclaimed water facilities or other designated utilities service areas.
- Develops, improves, implements and maintains section's Preventive Maintenance Program.
- Schedules maintenance and repair activities, estimates costs, and submits cost/benefit analyses for a designated utilities service area.
- Monitors and forecasts all maintenance and repair activities for a designated utilities service area.
- Utilizes complex and comprehensive work management systems for project tracking.
- Trains and supervises subordinate staff.
- Maintains records and communicates effectively, orally and in writing.
- Performs related work as assigned or required.

ELECTRICAL/MECHANICAL TECHNICIAN, SENIOR (continued)

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Knowledge, Skills, and Abilities

- Knowledge of the functions and servicing of water and/or wastewater treatment plants, electrical, chemical, and mechanical equipment.
- Knowledge of types of potable water and wastewater handling equipment (motors, valves, pumps, electronic sensors and related support equipment).
- Knowledge of how to repair and operate electric monitoring equipment, pumps, chemical feeds, and related equipment.
- Knowledge of principles and practices of electrical, plumbing, welding and possibly other trades.
- Skill in using standard building trades tools and devices.
- Ability to plan, manage and supervise an entire plant location operation with subordinate teams and ongoing projects related to potable water and/or wastewater treatment systems maintenance, repairs and operations.
- Ability to manage, assign, supervise and evaluate the work of assigned personnel, budget, short term/long term scheduling and administrative systems.
- Ability to establish and maintain effective working relationships with others.
- Ability to troubleshoot electronic and mechanical equipment malfunctions to repair or adjust equipment to maintain desired operations.
- Ability to perform technical computations, analyze data and prepare and submit reports based on findings.
- Ability to perform a combination of skilled trades' tasks such as electrical, plumbing, mechanical, welding, and other knowledge 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 to ensure safe operations.
- Ability to anticipate and adjust systems equipment due to changing factors, such as water quality, weather, and changing work conditions.
- Ability to repair and replace electrical controls, filters, pumps, valves, generators, mixers, filling machines, and equipment used in monitoring and handling potable water and wastewater processes and operations.
- Ability to effectively use computers in daily activities.

For official use only

Revised	EEOC Code	Overtime Code
8/15	Technicians	Classified