

## FLEET MECHANIC/ELECTRO-MECHANICAL

Job Code	Pay Grade
12976	CL15

### Nature of Work

This is skilled technical mechanical work in troubleshooting and correcting electro-mechanical diesel and gasoline engine powered generator systems, plus other highly specialized electro-mechanic work. Employees in this class are certified and exercise technical independence in determining work methods and procedures. Incumbent may direct and lead others during major repair or overhaul projects. Incumbents apply full performance level mechanical and technical expertise and supervision in one or more specialized assignment areas. Incumbents execute specialized protocols and procedures for the repair and maintenance of the county fleet and equipment inventory to include critical back-up power control and generating systems. Incumbents assigned principal responsibility for emergency power generation are required to apply a high level technical expertise in alternating current (AC) voltages up to 4160V, 3 phase and apply expert skills in performing activities related to electrical power systems safety. The position reports to a manager, supervisor or designee.

### Minimum Qualification Requirements

Class covers multiple mechanic positions that may require a candidate to possess either one (or both) specializations:

- 4 years of electro-mechanical fleet vehicle and automotive mechanic journeyman level experience in the assigned field of automotive related maintenance and repair of emergency generators and power generation control systems fleet duties; and/or
- 4 years of electro-mechanical emergency power systems journeyman level experience in the assigned field of maintenance and repair of facilities' emergency generators and power generation control systems that includes technical expertise and responsibility for AC voltages up to 4160V, 3 phase power systems; or
- 4 years employment in a combination of these journeyman level tasks; 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 with tanker and hazardous material endorsements.
- Assignment to work a variety of work schedules including compulsory work periods in special, emergency, and/or disaster situations.
- Possession of 4 years journeyman level experience in gasoline and diesel engine repair and maintenance.
- Possession of 4 years journeyman level electrical repair, maintenance, and installation of facilities' emergency power generation systems and equipment.
- Possession and maintenance of certificates indicating successful completion of Automotive Service Excellence (ASE) certification in Diesel Engines (T-2).
- Possession and maintenance of Electrical Generating Systems Association (EGSA) Certification as an Electrical Generator Systems Technician within 1 year of appointment.
- Possession and maintenance of a valid Pinellas County electrician journeyman level Certificate of Competency.
- Other highly desirable knowledge, skills, abilities, and credentials relevant to a position.

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

- Performs electro-mechanical maintenance and repair of diesel and gasoline engine powered generator systems.
- Performs electro-mechanical maintenance and repair on portable and stationary emergency powered generators and power generation systems.
- Performs mandatory state fuel tank inspections for emergency generator fuel storage tanks.
- Performs repairs on emergency generator fuel storage tanks and related equipment.
- Diagnoses malfunctions of generators and power generation and control systems.

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### Illustrative Tasks (continued)

- Estimates nature and extent of repair services required, procures and receives materials, parts, services and supplies.
- Reports to and requests from supervision required additional infrastructure items required for work completion; such as., tools, equipment, and personnel as required.
- Repairs, replaces, rebuilds and modifies generators, motors, electrical power switching mechanisms, control relays and associated system components.
- Coordinates repair and service requirements with representatives of various county departments or agencies.
- Contacts various vendors and manufactures of generator systems and parts for research and procurement of required parts for completion of repair processes.
- Leads, trains, and directs others, and provides oversight to peer employees, contractors, and other personnel engaged in the installation and repair of diesel engines, emergency power generators, and power control systems.
- Operates automotive and heavy equipment associated with the installation and repair of emergency power generators and power generation systems.
- Diagnoses malfunctions of generator systems, estimates nature and extent of repair services required, orders materials, parts and supplies needed. Secures necessary personnel, performs necessary repairs.
- Repairs, replaces, rebuilds and modifies generators, motors, electrical power switching mechanisms, control relays and associated system components.
- Coordinates with representatives of various county departments or agencies regarding generator repair or service requirements.
- Contacts vendors and manufactures of generator systems and parts in order to secure necessary parts for repairs.
- Trains, directs and reviews the work of other individuals engaged in the installation and repair of generator systems.
- Posts relevant work order information to computerized maintenance management system (CMMS).
- Performs related work as assigned or required.

### Knowledge, Skills, and Abilities

#### Fleet Automotive, Construction Equipment & Other

- Knowledge and skills in one or more specialized assignment areas covering diesel and gasoline engines, generators, engine governors, generator and engine control gears and electro-mechanical switching mechanisms.
- Knowledge of electrical, electronic, hydraulic, pneumatic, vacuum, and mechanical systems and components of motorized vehicles and equipment.
- Knowledge of the principles of automotive mechanics, design, occupational hazards and safety precautions.
- Skill in troubleshooting and determining reasons for malfunctions in electrical and mechanical components and control systems and correcting of same.
- Ability to endure long periods of standing, walking or working in inclement weather and possession of sufficient physical strength and agility to lift and move heavy objects.
- Ability to maintain effective working relationships with managers, supervisors, employees, vendors and others.
- Ability to perform heavy manual work for extended periods in inclement weather.
- Ability to read and interpret complex electro-mechanical wiring diagrams and schematics.
- Ability to review, recommend, and implement improvements to servicing methods, and/or repair processes inclusive of required tools and materials.
- Ability to use tools, machines, test instruments and repair manuals used in fleet maintenance and/or fleet electro-mechanical services.

## FLEET MECHANIC/ELECTRO-MECHANICAL (continued)

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### Knowledge, Skills, and Abilities (continued)

#### Emergency Power Generation Systems

- Knowledge and skills in maintenance and repair of large complex facilities emergency power generation and control systems.
- Knowledge and skills in the installation, modification, repair, and maintenance of electro-mechanical systems.
- Knowledge of operating and repair characteristics of public works equipment and/or portable and stationary emergency power generation systems.
- Knowledge of the occupational hazards and related safety precautions of the trade, including the supervision of those working with AC voltages up to and including 4160V, 3 phase equipment.
- Skill in the use of tools, machines and testing instruments used in the diagnosis, repair and overhaul of power generation units and control system components.
- Skill in troubleshooting and determining reasons for malfunctions in electrical and mechanical facilities' emergency power generation systems and correcting of same.

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Created	EEOC Code	Overtime Code
4/14	Technicians	Classified