



THE METROPOLITAN WATER DISTRICT
OF SOUTHERN CALIFORNIA

OPERATIONS AND MAINTENANCE TECHNICIAN III FLEET (SKILLED)

Group-Section: Water System Operations - Various	FLSA Status: Non-Exempt Bargaining Unit: AFSCME	Classification: Operations and Maintenance Fleet Technician Salary Grade: 35 Job #: T10A
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JOB SUMMARY

Utilizes and advances automotive mechanical/electrical skills, experience and knowledge in the practices, procedures, and methods of servicing, maintaining and repairing complex automotive, light/medium or heavy vehicles and heavy construction equipment, as well as mobile and stationary emergency generating equipment and systems.

Maintains and repairs a variety of automotive, light/medium or heavy equipment and systems. This may include gas, diesel and hybrid vehicles such as cars, sport utility vehicles, pickups and trucks of varied size and configurations, graders, bulldozers, tractor-trailers, tankers, cranes and other construction-related heavy equipment.

Utilizes a detailed Maintenance Management System (MMS) database necessary for work order, inventory control, fuel management, service records and regulatory entries. Supports the operational core of water and power reliability by effectively maintaining, repairing and improving the quality of fleet equipment and services for all core and supporting operations and maintenance functions, including shutdowns. Provides fleet equipment reliability, quality and efficiency through a mix of general and advanced predictive, preventive and corrective maintenance skills.

SUPERVISION:

Received:

Work is performed with general and sometimes minimal supervision. General direction is given in terms of operations and maintenance objectives that will require self-initiated work planning and sequencing, as well as coordination of material and tool resources. As the employee progresses skill, knowledge, and experience, minimal supervision may be appropriate.

Receives oversight from the Team, Unit, Section, Assistant Group, Group Manager.

Given:

As a lead may exercise technical and/or functional direction over assigned staff.

Specific attention is given to on-the-job training and development of Fleet Technicians I and II employees, in order that those employees attain specialized knowledge and skills to advance to Fleet Technician III positions.

JOB DUTIES

Performs either light/medium or heavy equipment maintenance and repair including:

1. Performs predictive, preventive and corrective maintenance on a variety of fleet equipment ranging from automobiles to light/medium or heavy and specialty equipment that operate under normal and extreme conditions, and are necessary to support all of Metropolitan's ongoing operations and maintenance functions.
2. Performs routine predictive, preventive, and corrective fleet maintenance including replacing consumable parts and items such as belts, filters, batteries, tires, brakes, exhaust and electrical components, chemicals/fluids, and lubricants. Both preventive and corrective repairs includes fuel systems, chassis/strut and shock absorbing equipment; wheels and bearings; brakes, including hydraulic/pneumatic systems, brake systems; power trains; and complex and varied electrical/charging systems. Perform repairs intended to enhance equipment life and to support safe and effective operation of vehicles and equipment.
3. Diagnoses and troubleshoots a variety of automotive light/medium or heavy fleet equipment problems and complete appropriate corrective action to eliminate malfunctions and ensure effective vehicle use to minimize vehicle down time.
4. Completes PM and CM work on automotive light/medium or heavy equipment with varied power and drive train systems, hydraulic systems, fuel management systems, and auxiliary components including manual and computerized electronic controls and safety devices to provide equipment reliability.
5. Performs mechanical and computerized PMs and CMs on mobile HVAC systems.
6. Performs predictive, preventive, and corrective fleet maintenance on emergency generation equipment including large-scale diesel and propane powered generators to ensure uninterrupted reliability of communications, treatment and conveyance systems (core operations).
7. Completes vehicle emission and regulatory inspections and testing for all vehicles under State, Federal and local regulatory control, including air quality inspections/tests for standard fleet vehicles and emissions and may conduct opacity inspections for diesel equipment.
8. Performs any type of work in connection with the CHP Bi-annual Inspection of Terminal (B.I.T.) program; perform 90-day inspections on commercial trucks and buses, as well as make necessary repairs and adjustments.
9. Performs advanced diagnostic testing and troubleshooting using computerized electronic equipment to effectively read, interpret and record data from a wide range of components to assimilate and take the appropriate corrective or follow-up steps. Make programming changes to on-board computerized systems as necessary.
10. Rebuilds automotive light/medium or heavy equipment components such as engines, transmissions, differentials, final drives, hydraulic and pneumatic braking systems, fuel management systems, electrical systems, and chassis components.
11. Performs shop and road service calls for District vehicle emergencies and may perform basic electric arc and gas welding on light/medium or heavy equipment components ranging from power take offs, brackets, mounts, and hoses to structural modifications and reinforcement to ensure vehicle integrity.

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12. Performs general and advanced repairs to networked components, including networked systems such as supplemental inflatable restraints (airbags), antilock brake systems, control area networks (CAN) to ensure safety and operational systems function as designed.
13. May be responsible for maintaining fuel and parts inventory levels as well as maintenance of fuel islands, monthly shop safety inspections and shop housekeeping. Also responsible for maintaining and dispatching local pool vehicles and key inventory.
14. In accordance with district required training maintains stores of hazardous materials, including fuels in above and underground tanks, as well as other hazardous materials and waste to ensure proper containment of materials utilized in automotive light/medium or heavy equipment maintenance and repair.
15. Inputs and retrieves vehicle maintenance and repair records into a computerized maintenance management data system, such as Maximo; and input data, using a computer program such as Work Tech to track work and enter time as well as service records and regulatory entries, including CHP, AQMD and other State and local requirements.

EMPLOYMENT STANDARDS

MINIMUM QUALIFICATIONS

Education and Experience:

High school diploma or GED in addition to a minimum of 3 years recent experience in an automotive light/medium or heavy equipment maintenance position without a certified apprentice program.

OR

High school diploma or GED and attainment of skills through a recognized automotive light/medium or heavy equipment maintenance trade training program and/or applicable related experience within a industrial environment.

Experience and knowledge as demonstrated by general and advanced practical application of techniques and practices specific to the inspection, diagnosis, maintenance and repair of equipment including pumps, compressors, automotive light/medium or heavy. Skills necessary include mechanical, hydraulics, electrical, welding, and computer/electronics, and handheld diagnostic systems.

Required Knowledge of: Employees in this title are at the skilled-level and utilize and advance skills through classroom and on-the-job training or they are obtaining the necessary experience working with journey-level Fleet Technicians to competently demonstrate:

Theories, practices, tools, parts, diagnostic equipment and materials necessary for the effective maintenance and repair of fleet units. Ensure safe and effective handling of toxic substances to ensure environmental compliance. Safe handling of chemicals associated with fleet repair, parts and varied systems (fuel, brake, cooling systems, etc.) cleaning solvents and lubricants. Ensure safe operating techniques and the occupational hazards of motorized, hydraulic and pneumatic equipment operation, as well as electrically energized automotive tools, components and servicing equipment. Knowledge of varied types of generators which may include diesel and propane powered systems nomenclature, preventive and corrective maintenance approaches, as well as safety procedures relating to lock-out, tag-out and high voltage generation and propulsion precautions, assist with the design and layout of welding

and fabrication to ensure high levels of quality and integrity in fleet maintenance and repair. safety practices and regulations for operating mechanical and electrical equipment.

Required Skills and Abilities to: Diagnose malfunctions through the utilization of general and advanced electronic and computerized diagnostic equipment of varied types and manufacturers. Ability to read and interpret manufacturer schematics and vendor diagrams, manuals and specifications to complete installation and repair of complex automotive light/medium or heavy equipment related parts and systems. Use and maintain automotive tools and equipment utilized in automotive light/medium or heavy equipment maintenance, diagnose and repair malfunctions of fleet equipment and systems (visually and/or aurally), including engine and drive systems, fuel, electrical, suspension, chassis and safety appliances, refrigerant recovery and recycling requirements of the Environmental Protection Agency (SCAQMD).

CERTIFICATES, LICENSES and REGISTRATIONS REQUIREMENTS

Employees in this position may be required to obtain and maintain the following certifications, licensing and registrations:

- Valid Drivers license from state of residency equivalent to a California Class A, B, and/or C with appropriate commercial license endorsements
- Certification from the South Coast Air Quality Management District in freon installation, automotive air conditioning and emissions (including CFC 12, Refrigerant recycling and service procedures)
- Emission testing certification from the State of California
- ASE certification
- Air brake inspections certification (medium/heavy)

PHYSICAL DEMANDS/WORK ENVIRONMENT

Expectations of Hours of Service, Emergency and Stand-by Service:

Employees in this position may be required to work off-shift hours and/or stand-by services to address operational needs and emergencies as required. May be required to work extended period away from the normal reporting location.

Physical Demands:

Heavy tasks may require lifting and carrying items weighing up to 50 pounds, with intermittent need to lift and carry materials and/or equipment weighing up to 100 pounds with assistance. Frequently requires pushing, pulling, turning and positioning parts, assemblies, equipment and tools weighing as much as 100 pounds with assistance. May be required to lift and move heavy items with the assistance of others and with lifting devices such as jacks, hoists and cranes of varied types and capacities. Physical effort includes frequent walking, stooping, bending, reaching, standing, kneeling and sitting for long periods of time.

MWD

Metropolitan Water District of Southern California

Work Environment:

Work is performed indoors and outdoors at pumping, treatment, hydroelectric or control facilities or other assets under all types of conditions including extreme temperatures as well as varied types of terrain. Job tasks may require working from heights and functioning from lifts, hoists, scaffolds and cranes over surfaces ranging from earthen materials to concrete, steel and water. Work activity may be frequently conducted in close proximity to exposed, electrically energized equipment including high voltage systems.

The work environment frequently involves exposure to equipment and tools producing high levels of noise, as well as potentially dangerous materials and chemicals that require careful adherence to extensive safety precautions, rules and regulations.