



THE METROPOLITAN WATER DISTRICT
OF SOUTHERN CALIFORNIA

OPERATIONS AND MAINTENANCE TECHNICIAN II EQUIPMENT OPERATOR (Semi-Skilled)

Group-Section: Water System Operations - Various	FLSA Status: Non-Exempt Bargaining Unit: AFSCME	Classification: Operations and Maintenance Technician Salary Grade: 31 Job #: S02A
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JOB SUMMARY

Learns and utilizes skills, experience, and knowledge in the practices, procedures, methods of light and heavy equipment operation and transportation. Employees holding this title under direct supervision may be required to operate equipment ranging from standard vehicles and multiple axle trucks and trailers to varied types of heavy equipment such as excavators, bulldozers, backhoes, loaders, tractors, dump trucks, water trucks, tanker trucks, and cranes used in the construction, improvement and repair aspects of Metropolitan's large-scale water treatment, distribution, and hydroelectric systems. Those skills include the proper and safe use, transportation, and minor maintenance of varied equipment, as well as basic knowledge of construction techniques associated with heavy equipment used in conjunction with a variety of water, hydroelectric and supporting infrastructure improvement such as maintenance and corrective repair projects.

Performs and/or assists with the general practices and techniques of manipulating equipment with constant attention to safety of equipment operation in the maintenance and repair of a wide variety of water utility assets, assemblies, and water related equipment such as large gates, valves, pipelines, structures vaults, drain covers, and similar equipment.

Performs and/or assists with building, maintaining, and improving a variety of Metropolitan's assets, appurtenances, structures and roadways that support the operational core of water and power reliability by meeting or exceeding internal and external customer expectations through basic equipment operations.

OVERSIGHT

SUPERVISION:

Received:

Work is performed with clear and detailed instructions. Close and sometimes general supervision is given to ensure proper adherence to standards, procedures, rules, and practices; deviations are referred to a supervisor or lead person. Checking for quality workmanship is accomplished on a routine basis. As the employee progresses in skill, knowledge, and experience, general supervision may be appropriate. Direction is provided on the tasks to be undertaken with some latitude to rearrange work sequences and discriminate between established practices and/or methods. Guidance on the approach to standard circumstances, tasks and activities is provided in procedures, manuals, rules, or common craft practice. A lead person or supervisor provides guidance on the approach to tasks or activities encountered in non-standard or uncommon circumstances.

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

Given:

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

JOB DUTIES

Performs and/or assists with equipment operator tasks to effectively build, maintain, and improve a variety of Metropolitan's assets, appurtenances, structures and roadways that support the operational core of water and power reliability by meeting or exceeding internal and external customer expectations through equipment operations.

1. Performs and/or assists with general equipment operation as well as related tasks to accomplish Preventive Maintenance (PMs), Corrective Maintenance (CMs), and improvements related to the rebuilding, repair and maintenance of water conveyance systems, treatment and hydroelectric plants to support operational reliability and system capacity.
2. Performs and/or assists with general roadway maintenance such as preparation work, mixing, laying and placing asphalt and concrete. Maintaining and repairing patrol, powerline, and other right-of-ways to ensure access to pipelines, aqueducts, powerlines and communication sites.
3. Performs and/or assists with major improvements, shutdowns, or other CM and PM activities on a variety of construction related projects that ensure asset/equipment life, water and hydroelectric uptime and reliability.
4. Performs and/or assists with erosion control of drain ways through construction, maintenance and repair of V-dykes, culverts, and bridges to maintain right-of-ways for effective access.
5. Recognizes and avoids harming endangered species, and other protected vegetation, as well as weed abatement in compliance with Federal, State and local regulations.
6. Operates light and heavy motorized equipment with constant attention to safety in order to prevent accidents and injuries at worksites.
7. Assists with injection of sodium hypochloride, sodium bisulfate and copper sulfate into aqueducts and reservoirs to control algae.
8. Performs and/or assists with general preventive and corrective maintenance on light and heavy equipment in both shop and field environments to maintain equipment in proper and safe working order.
9. Effectively operates varied power driven equipment such as jackhammers, tampers, or other similarly sized equipment.
10. Performs and/or assists with the operation of heavy equipment such as semi-tractor trailers, cranes, graders, loaders, low bed and drop deck trailers, dump trucks of varied capacities (10 yards or higher) in accordance with traffic laws and regulations upon public and private right-of-ways.
11. Performs and/or assists with the operation of off highway equipment such as cranes, graders, loaders, bulldozers, rollers, compactors, excavators, vacuum-trucks, and asphalt distributing trucks and similar equipment safely and effectively.

12. Performs and/or assists with general equipment operation on construction sites, treatment plants, conveyance and distribution facilities including hydroelectric plants with constant attention to safety as well as economy of operation, including cranes and rigging of various size and capacities.
13. Utilizing related tools and equipment assists in the layout and construction of concrete forms and placement of reinforcing steel, concrete placement and finishing.

EMPLOYMENT STANDARDS

MINIMUM QUALIFICATIONS

Education and Experience:

High school diploma or GED in addition to a minimum of 2 years experience as an equipment operator

OR

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

Experience and knowledge as demonstrated by practical application of semi-skilled techniques and practices specific to heavy equipment operations. Skills necessary include effective, legal and safe operation of a variety of motorized equipment including light and heavy construction equipment. Also requires skills in preventive and corrective maintenance practices related to general construction that are normally associated with equipment operation, and are generally obtained through applicable training and experience.

Required Knowledge of: Employees in this title are semi-skilled and learn and utilize skills through classroom and on-the-job training or they are obtaining the necessary experience working with higher-level Operators to competently demonstrate:

The safe practices, tools and techniques related to the operation of light and heavy equipment and associated construction methods for the repair and improvement of water distribution, treatment and hydroelectric assets and equipment, basic understanding to read and interpret blueprints, schematics and drawings of assets, equipment, and parts necessary to effectively operate equipment, perform minor repairs on light and heavy equipment and/or component parts, inspecting a construction site in preparation for equipment operation to ensure adequate clearances such as underground service alerts, safety aspects, and to communicate any potential unsafe situations to other employees and supervisors, Federal, State and local codes and other regulations for all phases of handling and transportation of hazardous materials, as well as pertinent regulations pertaining to the Endangered Species Act and similar regulations, and experience of the working characteristics of varied light and heavy equipment necessary to safely and effectively operate equipment in varied operating situations, and safety practices and regulations for operating mechanical and electrical equipment.

Required Skills and Abilities to: Perform and/or assist in following instructions and interpret manuals, operating and maintenance procedures and specifications related to light and heavy equipment and related construction activities, and apply and guide others in adhering to safety practices and regulations for operating light and heavy construction equipment.

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
- Crane Certification
- Forklift Certification
- Manlift Certification
- Respirator Certification

PHYSICAL DEMANDS/WORK ENVIRONMENT

Expectations of Hours of Service:

Employees in this position may be required to work off-shift hours to address operational needs and emergencies as required. May be required to work extended periods 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, climbing, stooping, bending, reaching, standing, kneeling and sitting for long periods of time. At times may be required to use respiratory filtration devices and other personal protective equipment (PPE).

Work Environment:

Work is performed indoors and outdoors at large pumping, treatment, hydroelectric plants or control facilities or other assets under all types of conditions, including extreme temperatures, open and confined spaces ranging from crawl spaces to sub-structures as well as varied types of terrains. Job tasks may require working from heights and functioning from lifts, hoists, scaffolds, manbasket, bucket trucks and cranes over surfaces ranging from earthen materials to concrete, steel and water. Work activity may be 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.