

City of Fort Worth, Texas Job Description

Classification Title	Water Systems Mechanic II		
Job Code:	ST5440	Job Family:	Service Trades
Pay Grade	508	Date Reviewed:	07/07/2015
FLSA Status	Nonexempt	Date Revised:	10/07/2023

GENERAL SUMMARY

Performs skilled maintenance, repair and installation of systems vital to the production of clean and safe drinking water in sufficient quantity and quality. Repairs water and wastewater equipment, pumping machinery, engines and electrical equipment.

ESSENTIAL DUTIES & RESPONSIBILITIES

The intent of this job description is to provide a representative summary of the major duties and responsibilities performed by incumbents of this job. Incumbents may be requested to perform job-related tasks other than those specifically presented in this description.

1. Diagnoses and repairs disabled machinery and mechanical equipment at the city's water or wastewater treatment plants and facilities.
2. Maintains, repairs and installs pumps, motors, valves and chemical feed systems.
3. Disassembles, cleans, overhauls and rebuilds motors, electric powered blowers, valves, sewage and chemical feed pumps, filters and other plant equipment.
4. Maintains and operates electrical distribution systems and generator distribution stations.
5. Fabricates parts and equipment including mounts, brackets and shields. Operates welding and cutting equipment.
6. Receives, stores and handles hazardous materials.
7. Assists in maintaining inventory of proper tools, supplies and equipment. Requisitions materials when assigned.
8. Gathers readings from various meters and gauges. Inputs data records of maintenance repairs.
9. Generates and maintains records including time reporting, equipment records, inventories and initiate purchasing requests.
10. Operates hand tools and equipment including a welding machine, air compressor, jackhammer, forklift and other related equipment.
11. Performs emergency call duty.
12. Performs other duties as required.
13. Adheres to assigned work schedule as outlined in the Department and City attendance policies and procedures; ensures all behaviors comply with the City's Personnel Rules and Regulations.

KNOWLEDGE, SKILLS & ABILITIES

- **Knowledge of:**
 - Maintenance, repair, and operation of motors, mechanical and chemical equipment utilized by pumping and water treatment facilities.
 - State and Federal laws and regulations regarding hazardous materials.
 - Basic and complex mechanical principles.
 - Engine operation, repair, and principles including large stationary engines.
 - Materials, tools, and techniques used in plant operations.
 - Carpentry and concrete masonry.
 - Plant operational processes.
 - Power supplies.
 - Safety precautions and practices as applied to electrical, mechanical, and construction activities.
 - Personal protective equipment.
 - City departmental policies and regulations.
 - Technical equipment and manuals.
- **Skill in:**
 - Operating heavy equipment.
 - Installing, repairing, troubleshooting and maintaining equipment.
 - Time management.
 - Problem solving.
- **Ability to:**
 - Communicate clearly and effectively, both orally and in writing.
 - Use basic hand and power tools.
 - Read and understand technical manuals.
 - Use precision instruments and welding and cutting torches.
 - Prioritize and delegate workflow.
 - Work independently and lead effectively.
 - Access and troubleshoot equipment and situations.
 - Perform under pressure.

MINIMUM JOB REQUIREMENTS

High school diploma/GED and two years of responsible experience in water/wastewater plant maintenance or related field.

OTHER REQUIREMENTS

Valid Texas driver's license.

WORKING CONDITIONS

The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

Depending on assignment, positions in this class typically require touching, talking, hearing, seeing, grasping, standing, stooping, kneeling, crouching, reaching, walking,

repetitive motions, climbing, balancing, pushing, pulling and lifting; depending on assignment. Incumbents may be exposed to moving mechanical parts, odors, dusts, poor ventilation, chemicals, oils, extreme temperatures, inadequate lighting, intense noises, gases, vibrations, chemicals, oils and workspace restrictions.

PHYSICAL DEMANDS

The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

Heavy Work – Depending on assignment, positions in this class typically exerting up to 100 pounds of force occasionally, up to 50 pounds of force frequently, and/or up to 20 pounds of force constantly having to move objects.