

OPERATOR-MECHANIC
Water Treatment Plant

GENERAL STATEMENT OF DUTIES: Performs a variety of technical, skilled and physical work in the maintenance, repair, upkeep and operation of an advanced municipal water treatment supply facility and system, including wells, treatment, storage and pumping.

SUPERVISION RECEIVED: Work is performed under the direction of the Water Treatment Plant Superintendent or employee of higher grade.

ESSENTIAL FUNCTIONS:

- Routinely and thoroughly inspect equipment for proper operation and assess the need for adjustment or repair, overhaul or replacement.
- Perform scheduled preventative maintenance such as, but not limited to, equipment lubrication, alignment, belt and chain adjustments or replacements, filter renewal, bearing and seal replacement, pump packing, cleaning, etc.
- Carry out various equipment overhauls or replacements involving pumps, piping, valves, motors, gear reducers, pneumatic and hydraulic systems, chemical feed equipment, building mechanical equipment and all other equipment at the facility and system.
- Daily use of preventative maintenance and asset management software, in all maintenance procedures and schedules.
- Recommend improvements to extend equipment service life, to improve operating efficiency and improve maintenance capabilities.
- Update equipment record files, maintenance schedules and logs, and parts inventories.
- Maintain and repair plant vehicles and maintenance equipment.
- Maintain shop area, parts inventory and tools in a neat, orderly and clean condition.
- Assist in ordering and receiving parts and maintenance supplies.
- Operate a variety of electric, pneumatic and hand tools.
- Provide routine and emergency snow plowing at the water system facilities as needed.
- Perform the duties of a Plant Shift Operator and related work as required.

Note: The functions listed above illustrate the various types of work that may be performed. The omission of a specific statement of duties does not exclude them from the position if the work is similar, related or a logical assignment to the position. The normal work hours are day shift, including overtime as required. Standby shifts may be required at employer's discretion.

JOB REQUIREMENTS:

- Graduation from high school, GED equivalent, or an equivalent combination of education and experience. Technical training in fields or skills associated with mechanical equipment maintenance and repair is desirable.
- Possession of a mechanic or mechanical license or certification is desired.
- The State of Michigan Operator Certification F-4 is required for the Operator-Mechanic, Water Treatment Plant. If upon appointment the certification is not held, the F-4 license must be obtained within 24 months of appointment.
- A minimum of one year experience as a Plant Shift Operator (Attendant) at a Water Treatment Plant during which time the applicant must have demonstrated the ability and desire to carry out the above described ESSENTIAL FUNCTIONS, as well as the duties of a Plant Shift Operator, is desired. In lieu of such experience, familiarity with water treatment practices, such that the Plant Shift Operator duties can be capably performed after a reasonable training period is acceptable.
- A demonstrated work and service ethic including: reliable and punctual attendance, being a self-starter, able to anticipate and perform work tasks without constant supervision, having motivation to improve individual and work group performance.
- The ability to communicate effectively verbally and in writing: ability to establish and maintain effective working relationships with co-workers, other departments and the public; ability to understand and carry out written and oral instructions.
- Knowledge and use of proper safety precautions in the use of tools and in performing mechanical and electrical equipment servicing and repairs.
- Knowledge of hydraulics, mathematics, mechanical and electrical principles and practices, and the ability to apply this knowledge to water treatment operations and maintenance functions.
- The ability to perform heavy manual tasks for extended periods of time and ability to work safely.
- The ability to troubleshoot and repair electro-mechanical equipment.
- The ability to use and properly care for a variety of power and hand tools, and precision measuring and testing equipment.
- The ability to perform welding, cutting and pipe work as required in maintaining and replacing plant equipment.

- The ability to learn to operate and maintain various types of heavy and power driven equipment.
- The ability to maintain accurate records and to use a personal computer and software for work scheduling and record keeping.

TOOLS AND EQUIPMENT USED

Power and hand tools and equipment for installation and maintenance of plumbing, piping and mechanical systems; mechanic's tools including jacks, hydraulic lifts, air tools, and other tools required for minor repairs and routine maintenance of motorized vehicles; welding equipment, cutting torches, pipefitting tools; electrical and electronic testing and calibration equipment; ladders, chainfalls and hoists; personal computer, calculator, phone; mobile or portable radio.

PHYSICAL REQUIREMENTS:

- 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.
- While performing the duties of this job, the employee is regularly required to use hands to finger, handle, feel, or operate objects, tools, or controls and reach with hands and arms. The employee is occasionally required to walk, sit, climb or balance, stoop, kneel, crouch or crawl; and smell.
- The employee must frequently lift and/or move up to 25 pounds and occasionally lift and/or move up to 100 pounds. Specific vision abilities required by this job include close vision, distance vision, color vision, peripheral vision, depth perception, and the ability to focus.

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.

While performing the duties of this job, the employee will work in outside weather conditions as experienced year-round in Michigan including inclement weather. The employee frequently works near moving mechanical equipment and is frequently exposed to wet and/or humid conditions and vibration. The employee may occasionally enter into confined spaces with limited ventilation. The employee may occasionally work in high, precarious places and is occasionally exposed to fumes or airborne particles, toxic or hazardous chemicals, and risk of electrical shock. The noise level in the work environment can be moderately loud.