

WASTEWATER TREATMENT PLANT MECHANIC

As of 1/1/2024 \$27.66-\$31.66

DISTINGUISHING FEATURES OF THE CLASS:

The work involves performance of semi skilled and skilled tasks related to the repair, maintenance and construction of wastewater treatment plant equipment, vehicles, facilities, and grounds. The work is performed in accordance with the practices involved in the preventive maintenance, repair and fabrication of wastewater treatment plant equipment including pumps, manual and electronic valves, digester units, gas and diesel engine, compressors, injection systems and motors. The class differs from that of Waste Water Treatment Plant Maintainer by virtue of the responsibility for the skilled repair and fabrication of plant mechanical equipment. The class differs from the Waste Water Treatment Plant Instrument Technician, because the Technician has responsibility for the skilled repair of complex electronic, electrical, pneumatic and related mechanical equipment. The work is performed under the general supervision of the Head Mechanic, Superintendent or Assistant Superintendent. May, upon assignment, supervise the work of subordinate plant personnel. Does related work as required.

TYPICAL WORK ACTIVITIES:

Performs a wide variety of job repairs and preventive maintenance to pumps, valves, mechanical screens, degritting equipment, sludge and grit conveyors, gear drives, manual and electronic valves, digester units, chemical injection systems, blowers, compressors, gas and diesel engines, plumbing and piping and HVAC; Designs and fabricates equipment modifications to increase performance and / or decrease equipment failure; designs and fabricates supports, pump bases, railings, grating covers, weirs, guards, some concrete repair and construction. Evaluates equipment failures and determines corrective courses of actions and performs preventive maintenance of pumping machinery, conveyors, motors, and other plant equipment; Performs a variety of machine shop activities such as welding, brazing, steam fitting, tool fabrication; Operates lathe, drill press, grinder, power saw, welding and other shop equipment; Inspects plant for maintenance and repair needs; Installs new mechanical equipment; Rebuilds pump sleeves, pump pistons and other equipment; Tightens chains, installs pipes, lubricates and repairs motors; performs preventive maintenance and repairs on trucks and other moving equipment and buildings; Inspects equipment and specifications to determine maintenance needs and schedules; Repacks pumps; prepares time and equipment reports; assists in locating parts for repair and maintenance; performs skilled carpentry and plumbing tasks as need; performs gas and arc welding; demonstrates a full understanding of applicable policies, procedures and safe work methods associated with working in confined spaces, handling biohazards, and working with hazardous chemicals; general housekeeping of plant facilities; performs other duties as assigned.

FULL PERFORMANCE KNOWLEDGE, SKILLS, ABILITIES & PERSONAL

CHARACTERISTICS: Good knowledge of practices, tools, terminology and safety procedures established for the maintenance and repair of a Wastewater Treatment Plant; Good knowledge of the operation, maintenance and repair of large pumps and auxiliary equipment; Knowledge of plumbing, preventive maintenance programs, gas and diesel engine repair, working knowledge of

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the functions and practices used in the maintenance of a Wastewater Treatment Plant, occupational hazards and standard safety practices including handling of toxic chemicals and biohazards; skill in the use of tools and equipment used for mechanical repair and fabrication; skill in repair of mechanical equipment; ability to work from plans, specifications, and rough sketches; ability to follow oral and written instructions; good eye/hand coordination; mechanical aptitude; manual dexterity; knowledge of proper English, reading, spelling and grammar, methods and techniques for record keeping, basic principles of mathematics, willingness to work out of doors under adverse weather conditions; physical condition commensurate with the demands of the position; Ability to work as a team member; Ability to work with computer interfaces and programs; must be physically capable of sustained climbing, walking, and lifting; ability to operate a personal computer and utilize common office software programs including word processing, spreadsheet, and database at an acceptable rate of accuracy and speed; Must be willing to work any day or shift.

MINIMUM QUALIFICATIONS: Graduation from High School or possession of a High School equivalency diploma **and**;

(a) Three years of experience as a Wastewater Treatment Plant Mechanic's Assistant; **or**

(b) Three years hands on experience with industrial mechanical maintenance, including but not limited to industrial pumps, engines, motors, conveyance equipment or plumbing.

SPECIAL REQUIREMENTS: Possession of an appropriate level motor vehicle operator license issued by the New York State Department of Motor Vehicles with the ability to be covered under plant insurance policy at time of appointment, and must maintain the license during the entire length of appointment.

Adopted: 7/14/84 (Non-Competitive)

Reallocated to the Competitive Class: 2/7/05

Revised: 7/26/07 (Competitive)

Revised: 3/27/09

Revised: 1/28/10

Revised: 12/18/13