

## SEWAGE TREATMENT PLANT MAINTENANCE MECHANIC

**Distinguishing Features of the Class:** The work involves responsibility for the installation, maintenance, and repair of equipment and machinery used in the operation of a municipal wastewater treatment plant. The incumbent also trains Sewage Treatment Plant Operators relative to the maintenance and basic repair of plant equipment and machinery. The work is performed under the general supervision of the Chief Sewage Treatment Plant Operator with considerable leeway allowed for the exercise of independent judgment in carrying out the details of the work. Does related work as required.

### **Typical Work Activities:**

- Installs, maintains, and performs skilled mechanical and electrical repairs either independently or on a team basis to equipment and machinery used in the operation of wastewater treatment plants including valves, gauges, motors, pumps, timers, switches, relays, and related automatic recorders;
- Trouble shooting of electrical panels, motor control centers and electrical equipment of the municipality;
- Inspects plant facilities and equipment daily;
- Instructs and trains new Sewage Treatment Plant Operators in making basic repairs to equipment and machinery used in the operation of the plant;
- Reads and interprets technical drawings and schematic relative to the work performed;
- Requisitions parts and maintenance supplies as needed;
- Creates and maintains a variety of records and reports relative to the work performed;
- Conducts daily inspection of buildings, machinery and equipment and reports any deficiencies to the Chief Sewage Treatment Plant Operator;
- Fabricates material for repair of machines and equipment, involving welding (gas and electric) and acetylene cutting;
- Performs needed carpentry and maintenance work as needed in the remodeling of facilities at the wastewater treatment plant;
- Performs general repairs and maintenance of plant vehicles;
- Records readings from meters and gauges;
- Performs necessary physical and chemical tests for control of plant operation;
- May assist in the instruction of trainees;
- May assist in the repair of wastewater collection systems;
- May oversee the work of subordinate employees;

### **Full Performance Knowledge, Skills, Abilities and Personal Characteristics:**

- Good knowledge of equipment and machinery used in wastewater treatment plants;
- Good knowledge of the tools, equipment and terminology used in the installation, maintenance, and skilled repair of equipment and machinery used in wastewater treatments;
- Good mechanical aptitude;
- Working knowledge of the principles, practices and safety precautions involved in the operations of wastewater treatment plant;
- Skill in repairing equipment and machinery used in wastewater treatment plants;
- Skill in the performance of electrical, plumbing, welding, carpentry and mechanical work;
- Ability to read and interpret technical drawings and schematics relative to the work performed;
- Ability to understand and interpret complex oral instructions and or written directions;
- Ability to troubleshoot problems and determine appropriate repairs;
- Ability to perform close, detail work involving considerable visual effort and concentration;
- Ability to understand and carry out oral and written instructions;

## **Sewage Treatment Plant Maintenance Mechanic continued**

- Initiative and attention to detail;
- Physical condition commensurate with the demands of the position.

### **Minimum Qualifications:**

Graduation from high school or New York State equivalency diploma **AND**

- 1) Graduation from a regionally accredited or New York State registered university or college with a Associate's Degree in mechanical technology, electrical technology or other appropriate field; **OR**
- 2) Two (2) years experience in the maintenance and repair of mechanical, hydraulic, pneumatic or electrical equipment; **OR**
- 3) One (1) year of experience as a journey level plumber; **OR**
- 4) Three (3) years of experience as a plumber's helper or other occupation performing skilled plumbing work.

### **NOTES:**

Official College transcript or copy of New York State equivalency diploma (depending on how you qualify for the position)

12/18/1992

03/25/2009

CLASS: NON-COMPETITIVE – approved State Civil Service Commission 5/11/1993