

DEPARTMENT: NORTH TONAWANDA WATER DEPARTMENT
CLASSIFICATION: COMPETITIVE
APPROVED: FEBRUARY 7, 2019

SENIOR WATER TREATMENT PLANT OPERATOR

DISTINGUISHING FEATURES OF THE CLASS: The work involves responsibility during a shift for the efficient operation and maintenance of a water treatment plant which includes facilities for filtration and pretreatment or a chemical softening process. The work is performed under the general supervision of the Chief Water Treatment Plant Operator. An employee in this position exercises all the authority of the Chief Water Treatment Plant Operator in his absence. Supervision normally may be exercised over operators and other subordinate employees in the performance of their assigned duties. Does related work as required.

TYPICAL WORK ACTIVITIES:

1. In the absence of the Chief Water Treatment Plant Operator, supervises the operation of the plant to assure the most efficient and economical use of equipment, supplies and manpower;
2. Collects samples of water for testing;
3. Performs various tests of water for control of plant operation;
4. Performs standard bacteriological tests of water to determine sanitary quality;
5. Conducts physical tests of water for color, odor and taste;
6. Conducts chemical tests for iron, manganese, dissolved oxygen, alkalinity and residual chlorine;
7. Conducts periodic examinations of the plant equipment and reports condition to the Chief Water Treatment Plant Operator;
8. Operates pumps, valves, motors and related machinery and equipment;
9. Supervises and participates in the cleaning and washing of filters;
10. Records readings of meters, gauges and scales;
11. Regulates and adjusts chlorinators and alum tanks;
12. Supervises and participates in the training of new operators and trainees;
13. Maintains a log of plant operations and related records;
14. Assists the Chief Water Treatment Plant Operator in the preparation of periodic reports;
15. Performs continuous inspections throughout the plant to verify compliance with safety orders and to detect existing or potential unsafe or hazardous operating procedures, equipment or conditions.

FULL PERFORMANCE KNOWLEDGES, SKILLS, ABILITIES AND PERSONAL CHARACTERISTICS:

Good knowledge of the practices used and the equipment required in the operation and maintenance of a modern water treatment plant which includes facilities for filtration and pretreatment or a chemical softening process; good knowledge of the operations of a modern water treatment plant; good knowledge of the principles and applications of physics, chemistry and bacteriology as they relate to water purification; skill in the operation and repair of pumps, valves and related mechanical equipment; ability to make accurate chemical and bacteriological analyses of water for control of plant operation; ability to read, understand and record data from gauges, scales and meters; ability to plan and supervise the work of subordinates; mechanical aptitude; ability to understand and carry out oral and written instructions; physical condition commensurate with the demands of the position.

Continued

SENIOR WATER TREATMENT PLANT OPERATOR CONTINUED

MINIMUM QUALIFICATIONS:

SUGGESTED PROMOTIONAL QUALIFICATIONS: Two (2) years of permanent competitive status as a Water Treatment Plant Operator in the City of North Tonawanda immediately preceding the examination date and must meet one (1) of the following open competitive qualifications.

OPEN COMPETITIVE QUALIFICATIONS: Candidates must meet one (1) of the following combinations of education and experience.

Education	Experience
Graduation from a regionally accredited or New York State registered approved college or university with a Bachelors Degree in engineering, natural science or a related field; and	Two (2) years of operational experience in the operation of a Type A Water Treatment Plant whose designated capacity exceeds 2.5 MGD with chemical conditioning, filtration and chlorination;
Graduation from a regionally accredited or New York State registered approved college or university with an Associates Degree in applied science with at least one semester course in water treatment plant operations; and	Four (4) years of operational experience in the operation of a Type A Water Treatment Plant whose designated capacity exceeds 2.5 MGD with chemical conditioning, filtration and chlorination;
Graduation from a regionally accredited or New York State registered approved college or university with an Associates Degree in applied science; and	Six (6) years of operational experience in the operation of a Type A Water Treatment Plant whose designated capacity exceeds 2.5 MGD with chemical conditioning, filtration and chlorination;
Graduation from high school or possession of an equivalency diploma. and	Ten (10) years of a combination of operational experience in a Type A Water Treatment Plant whose designated capacity exceeds 2.5 MGD with chemical conditioning, filtration and chlorination and/or in a Grade 4 Wastewater Treatment Plant with a minimum of one (1) year experience in a Type A Water Treatment Plant.

SPECIAL REQUIREMENTS:

Possession of a Grade IA Water Treatment Plant Operator's License within one (1) year of appointment and throughout employment.