

SENIOR MAINTENANCE MECHANIC I (TREATMENT PLANT EQUIPMENT)

DISTINGUISHING FEATURES OF THE CLASS: Under general supervision, an incumbent of this position performs a wide variety of journeyman level maintenance, repair and installation work on water and wastewater treatment plant equipment including the layout of jobs sufficiently complex to require advance planning, and the maintenance of necessary supplies and records. Work is performed with considerable independence and work may result from written or oral instructions. The incumbent may work as part of a crew or as lead worker on specific projects and may supervise a number of lower level maintenance and labor employees. The journeyman is fully proficient in the skills and practices of the trade, with the full knowledge of the principles, tools and techniques. The journeyman has responsibility for determining the methods, techniques, materials, and/or devices best suited to complete projects. Work at this grade may be completed with little or no check during progress or on completion. Supervisor may check overall work to see that it meets trade standards. Does related work as required.

EXAMPLES OF WORK: (Illustrative Only)

Maintains and repairs mechanical units associated with a water pollution control plant such as fans, electric motors, blowers, valves, speed reducers, hoists, pneumatic systems, mechanical screening equipment, water pumps, pressure reducing valves and flame arrestors of the type found on sludge digesters so the equipment will operate safely and efficiently;

Maintains and repairs settling tank drives, including the replacement of sprockets and chains so that equipment will operate safely and efficiently and to extend its useful life;

Overhauls and repairs raw sewage pumps, sludge pumps, grit removal equipment along with auxiliary equipment including motors, water pumps, air compressors, vacuum pumps etc. to ensure that equipment operates safely and efficiently and to extend its useful life;

Overhauls and repairs internal combustion engines which use diesel oil, gasoline or digester gas for fuel so that equipment will operate properly;

Keeps work area in a clean, orderly and safe condition;

Prepares schedules for and oversees daily inspection and maintenance of the various water and wastewater treatment plant equipment components so that resources are allocated efficiently and effectively;

Requisitions necessary materials and supplies;

Performs routine and emergency repairs and maintenance, both scheduled and in response to emergency situations, as required;

Uses computer applications or other automated systems such as spreadsheets, word processing, calendar, e-mail and database software in performing work assignments;

May perform other incidental tasks, as needed.

FULL PERFORMANCE KNOWLEDGE, SKILLS, ABILITIES, AND ATTRIBUTES:

Thorough knowledge of the tools, techniques and terminology used in the mechanical trades related to the repair, adjustment and inspection of a variety of machinery and equipment particular to water pollution control plants and water treatment plants; thorough knowledge of stationary engines of the internal combustion type; thorough knowledge of the accident prevention and safety precautions of the trade; ability to work effectively with supervisory and administrative personnel in carrying out the duties of the position; ability to effectively use computer applications such as spreadsheets, word processing, e-mail and database software; ability to read, write, speak, understand and communicate in English sufficiently to perform the essential tasks of the position; resourcefulness in improvising parts from existing materials and with available machinery, especially in emergency situations; initiative in carrying out the required work and seeking improved work methods; industriousness; physical condition commensurate with the demands of the position.

MINIMUM ACCEPTABLE TRAINING AND EXPERIENCE:

A high school or equivalency diploma and either: (a) four years of experience which involved the installation, inspection, routine maintenance and repair of mechanical equipment; two years of which must have been in a water treatment plant or pumping facility; or (b) satisfactory completion of a two year post high school or trade school course* in electrical, plumbing and/or HVAC and two years of experience as stated in (a), both of which must have been in a water treatment plant or pumping facility.

SUBSTITUTIONS: Satisfactory completion of 30 credits*, with a major course of study in Mechanical Engineering, Mechanical Technology, Construction Technology, the Mechanical Trades or a related field, may be substituted on a year for year basis for up to two years of the above required general work experience. There is no substitution allowed for the two years of specialized experience required above.

NOTE: Apprenticeship training or training gained by the completion of technical courses in mechanical maintenance and repair at a school or institute or branch of the armed Services may be substituted for the above training and experience on a year-for-year basis. There is no substitution allowed for the two years of specialized experience required above.

*SPECIAL NOTE: Education beyond the secondary level must be from an institution recognized or accredited by the Board of Regents of the New York State Department of Education as a post-secondary, degree-granting institution.

SPECIAL REQUIREMENTS:

1. Possession of a valid license to operate a motor vehicle in the State of New York will be required at time of appointment and maintain same while in the title
2. Depending on work assignment, must meet standards of OSHA regulation 1910.134 Respiratory Protection, and will be required to meet Federal, State and local standards with respect to health and safety

NOTE: Unless otherwise noted, only experience gained after attaining the minimum education level indicated in the minimum qualifications will be considered in evaluating experience.