

Civil Division: Oneida County Government
Jurisdictional Class: Non-Competitive
EEO Category: Skilled Worker
Revised: 04/26/11

MAINTENANCE MECHANIC-WELDER (WASTE WATER TREATMENT)

DISTINGUISHING FEATURES OF THE CLASS: This is skilled mechanical work involving responsibility for independently performing a variety of mechanical and hydraulic installation, repair and maintenance tasks on a waste water treatment plant and related equipment. The work also involves the fabrication and repair of existing metal structures involved in the treatment of waste water using electric arc and gas welding apparatus and equipment. The work is performed under general supervision of a maintenance supervisor, with leeway allowed for the exercise of independent judgment in carrying out the technical details of the work. This class differs from that of lower level positions in the maintenance field, by virtue of the more skilled nature of the work. Supervision may be exercised over the work of subordinate maintenance employees who assist with assigned tasks. This incumbent performs related work as required.

TYPICAL WORK ACTIVITIES: (Illustrative Only)

Performs a wide variety of repairs to pumps, mechanical screens, degritting equipment, skimming devices, conveyors, filters and piping, and other pneumatic and hydraulic equipment;

Consults with manufacturer's representatives, supervisors and subordinates relative to plant equipment functioning, repair and replacement;

Participates in the inspection and preventive maintenance on pumping machinery, conveyors, and related equipment;

Performs cutting, brazing and soldering tasks using either gas or electric arc welding equipment;

Grinds, files and finishes welds in preparation for painting;

Keeps and updates maintenance manuals, equipment descriptions, lubrication charts and other data or records in relation to maintenance activities;

Works with plant operations personnel to coordinate maintenance schedules and equipment repair activities;

Supervises and performs machinery lubrication tasks and preventive maintenance activities;

Installs and replaces a variety of plant equipment and machinery;

Maintains and repairs various waste water treatment plant equipment such as clarifiers, bar screens, grit chambers, chlorine contact tanks, digesters, filter press and emergency electrical stand-by generators;

Maintains and performs building maintenance involving carpentry, plumbing and low voltage electrical repairs;

May determine supplies and equipment needed for maintenance and repair of plant machinery and controls.

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FULL PERFORMANCE KNOWLEDGE, SKILLS, ABILITIES AND PERSONAL CHARACTERISTICS: Thorough knowledge of the installation, operation, maintenance and repair of pumps, valves, hydraulic regulators, control gates and equipment related to waste water treatment; thorough knowledge of the common practices, tools, terminology and safety precautions of one or more mechanical trades; working knowledge of arc and gas welding techniques; ability to work from plans, specifications and rough sketches; ability to use gas and electrical welding and burning equipment; ability to understand and follow oral and written instructions; ability to work from plans and specifications; ability to plan lay out welding work; ability to lift heavy weights; initiative and resourcefulness in solving mechanical problems; manual dexterity; mechanical aptitude.

MINIMUM QUALIFICATIONS: Either:

- (A) Graduation from a regionally accredited or New York State registered college or university with an Associate Degree in mechanical technology or a closely related field **AND** one (1) year of experience in the installation, repair and maintenance of mechanical, electrical, hydraulic and high pressure steam equipment, which shall have involved fabrication and welding of metal structures; **OR**
- (B) Graduation from high school or possession of high school equivalency diploma **AND** three (3) years of experience as listed in (A) above; **OR**
- (C) Five (5) years of experience as listed in (A) above.

SPECIAL REQUIREMENT: Eligibility for an appropriate level New York State Driver's License, at the time of application for appointment. Possession of a valid license at the time of appointment. This license must be maintained throughout appointment.

Title change from "Maintenance Mechanic-Welder (Sewage Treatment)": 05/22/98

Adopted: 07/05/89

Revised: 05/22/98, 04/26/11

