

**City of
EDMONDS
Washington**

SENIOR WWTP MECHANIC

Department:	Public Works – WWTP Maintenance	Pay Grade:	K
Bargaining Unit:	Teamsters	FLSA Status:	Non-Exempt
Revised Date:	June 2013	Reports To:	WWTP Supervisor

POSITION PURPOSE: Under general direction, performs a variety of journey-level work in the maintenance and operation of the City’s wastewater treatment plant to ensure the proper functioning of the plant facilities and equipment; maintains and upgrades plant mechanical equipment and buildings; performs a variety of preventative and corrective maintenance and project work; serves as plant operator and monitors equipment and process, makes proper adjustments to keep the process within the limits set forth by the DOE permit. Work assignments are received via work orders, email or written log and require the incumbent to understand, investigate and determine the appropriate procedures to follow to complete the work. Works independently with little or no direct supervision. Work is reviewed in progress and upon completion for compliance with instructions and work standards.

ESSENTIAL FUNCTIONS AND RESPONSIBILITIES:

*The following duties **ARE NOT** intended to serve as a comprehensive list of all duties performed by all employees in this classification, only a representative summary of the primary duties and responsibilities. Incumbent(s) may not be required to perform all duties listed and may be required to perform additional, position-specific duties.*

- Performs a variety of custodial and grounds work; clean and maintain work areas and restroom facilities and perform related work as assigned.
- Operates and maintain a variety of hand and power tools and equipment; drive a vehicle to local vendors to pick up and deliver parts and equipment.
- Performs a variety of journey-level work in the maintenance, troubleshooting, repair, replacement and equipment upgrades for a wide variety of mechanical equipment utilized in the operation of the City’s wastewater treatment plant
- Inspects, adjusts, repairs and replaces mechanical equipment and related parts; troubleshoots equipment malfunctions; researches manufacturer records and specifications to determine proper performance and operation standards.
- Independently performs routine preventive maintenance on plant equipment, greases equipment, checks and replaces belts, filters and other related accessories; may perform laser alignment and takes vibration readings on rotating equipment as necessary.
- Operates a variety of specialty equipment to include; a welder, saws, rigging and lifting equipment, lathe and drill press.
- Prepares and maintains a variety of records and logs including: maintenance data, pump repair reports, vibration analysis reports, work orders, schedules and other related records and submits to appropriate personnel for review as required.
- Performs Operator duties as assigned including: sampling, solids and liquid stream operation and process control adjustments required to maintain process within established parameters.
- May be required to work various schedules, respond to emergencies, work alone for extended periods and be assigned to On-Call responsibilities.

JOB DESCRIPTION

Senior WWTP Mechanic

Required Knowledge of:

- Basic treatment plant equipment maintenance and repair.
- Requirements of maintaining buildings and facilities in good repair.
- Health and safety regulations and procedures, including safe work practices with high voltage equipment
- Operation and use of hand and power tools and equipment.
- Operation and repair of electric motors, hydraulic systems, chemical feed systems, pumps, valves, filters, assorted pumps, belt press, valves, instruments and controls, and hydraulic systems and incinerators.
- Materials, methods and tools used in the operation and repair of electro/mechanical systems.
- Methods and practices of preventive maintenance, troubleshooting and equipment malfunction diagnosis.
- Methods and practices utilized in a variety of the maintenance trades, including: pipefitting, carpentry, masonry, welding and others; and use of rigging, cranes and other lifting apparatus.
- Current practices in secondary wastewater treatment operations, process control and permit compliance.
- Knowledge of incineration and belt filter press operation.
- Effective oral and written communication principles and practices.
- Modern office procedures, methods, and equipment including: computers and computer applications sufficient to accomplish work assignments.
- English usage, spelling, grammar, and punctuation.

Required Skill in:

- Performing a variety of journey-level work in the maintenance, troubleshooting and repair of the City's Wastewater Treatment plant.
- Performing a variety of custodial and grounds work.
- Operating tools and equipment used in general maintenance work.
- Operating, adjusting and servicing specialized equipment used in the Wastewater Treatment plant.
- Learning department goals and objectives.
- Observing health and safety regulations.
- Observing safe driving practices
- Following oral and written instructions.
- Welding a variety of materials, metal and plastics.
- Communicating effectively both verbally and in writing.
- Establishing and maintaining cooperative and effective working relationships with others.

MINIMUM QUALIFICATIONS:

Education and Experience:

High School Diploma/GED Certificate and three years of experience in mechanical maintenance, repair and installation of equipment and instrumentation related to wastewater treatment, electrical or millwright coursework of formal training plus one year of operations experience; OR an equivalent combination of education, training and experience. One year experience or an equivalent combination of education and experience in operating a secondary wastewater treatment plant.

JOB DESCRIPTION
Senior WWTP Mechanic

Required Licenses or Certifications:

Valid State of Washington Driver's License.
Washington State Wastewater Operator II certification.
Incinerators' License.
Forklift Operators License within six months of date of hire.
Valid CPR, First Aid, AED, and Blood borne Pathogen Cards.
Must be able to successfully complete and pass a background check.
Mandatory drug test subject to conditional job offer.

WORKING CONDITIONS:

Environment:

- Exposure to extreme temperatures and adverse weather conditions.
- Driving a vehicle to conduct work.
- Working in a confined or classified space.

Physical Abilities:

- Hearing, speaking or otherwise communicating to exchange information in person or on the phone.
- Operating a variety of grounds equipment and power and hand tools.
- Operating a computer keyboard or other office equipment.
- Reading a variety of materials and instruments and possess close vision, far vision, side vision, depth perception, night vision and color vision.
- Ascending/descending ladders.
- Lifting/ carrying or otherwise moving or transporting heavy objects frequently up to 50lbs.
- Sitting/standing or otherwise remaining in a stationary position for extended periods of time.
- Walking or otherwise moving over rough or uneven surfaces while performing inspections and investigations.
- Performing repetitive motions, including: balancing, stooping, kneeling, bending, crouching, crawling, reaching overhead, above the shoulders and horizontally, and standing, pushing, pulling and using stairs.
- Working in tight spaces.
- Ability to wear appropriate personal protective equipment based on required City Policy.

Hazards:

- Exposure to chemicals, used in wastewater treatment such as Sodium Hypochlorite, Caustic Soda, Bisulfate, Polymers, Clay, Lime and Carbon.
- Exposure to raw and treated sewage, odors associated with sewage treatment, high heat and moving equipment.
- Exposure to cleaning chemicals, herbicides and dust.
- Working at heights using ladders and structures.
- Working around and with sometimes noisy machinery having moving parts.
- Exposure to slippery surfaces, damp spaces while cleaning in and around equipment.
- Exposure to electrical power supply and high voltage.

Incumbent Signature: _____

Date: _____

Department Head: _____

Date: _____