



Industrial Mechanic - Sewer Mechanical J o b D e s c r i p t i o n

JOB INFORMATION

Approved Date:	6/5/2024 1:42:50 PM
Working Title:	Industrial Mechanic - Sewer Mechanical
Job Family:	Plant Operations
Classification:	Industrial Mechanic

ORGANIZATION

Department:	Public Works
Cost Center/Program:	4022 - Sewer Utility - Maintenance
Exemption Status:	Non Exempt
Union:	Teamsters - Utilities

JOB SUMMARY

This classification may perform operations, maintenance, repair and/or replacement of assigned mechanical equipment and/or is skilled in the installation, operation, maintenance, repair, and replacement of a wide variety of electrical systems and associated equipment used in wastewater treatment process and sewer pumping facilities at all four wastewater treatment plants and all associated system pump and lift stations. The incumbent has the skills to properly run machine shop equipment and is knowledgeable in working with different types of metals and/or knows and works under electrical industry standards, regulations, and codes. Provides mechanical expertise for the Utility on an extensive variety of equipment pertaining to wastewater process and pumping systems.

Distinguishing Characteristics

May serve as a subject matter expert in area of specialization. This classification may also act in a lead capacity as needed, but primary duties are not as a lead worker over internal staff.

The Utility M&O Specialist - Sewer Mechanical position performs operations, maintenance, repair and/or replacement of assigned mechanical equipment associated at all four wastewater treatment plants and all associated system pump and lift stations. The incumbent has the skills to properly run machine shop equipment and is knowledgeable in working with different types of metals. Provides mechanical expertise for the Utility on an extensive variety of equipment pertaining to wastewater process and pumping systems.

JOB FUNCTIONS

Essential Functions

Essential Function	% TIME
Preventative Maintenance: Performs routine maintenance on: pumps, a variety of valves and gear mechanisms, motors, generators, power tools, other equipment associated with wastewater treatment process and pumping systems including odor control, grit/solids removal, clarifiers, aeration, solids thickening and dewatering, gas scrubbers, ultra violet and chlorine disinfection system, and anaerobic digestion. Maintains coating systems on mechanical equipment. Refueling gas, propane, and diesel equipment. Check fluid levels, belts, gauges, meters all for proper operations. Maintains facility grounds including mowing, controlling weeds, maintaining irrigation systems.	25%
Corrective Maintenance: Repair and perform major overhauls on: pumps, a variety of valves and gear mechanisms, motors, generators, power tools, other equipment associated with wastewater treatment process and pumping systems including odor control, grit/solids removal, aeration, solids thickening and dewatering, gas scrubbers, ultra violet and chlorine disinfection system, and anaerobic digestion. Prepare and paint mechanical equipment.	35%

Essential Functions

Essential Function	% TIME
Operates Equipment: Uses electric and hydraulic crane trucks for lifting equipment, equipment trucks, portable and fixed generators, portable pumps, milling machines, lathes, metal inert gas (MIG), tungsten inert gas (TIG), and oxygen welders, and hand and power tools.	20%
Use manual and computer based preventative maintenance programs to: clearly document routine maintenance checks, generate work orders for repairs, help prioritize work and improve efficiencies, and helps troubleshoot mechanical irregularities.	20%

Required for All Jobs

• Performs other duties as assigned
• Complies with all policies and standards

This Job is Essential	☒
-----------------------	-------------------------------------

QUALIFICATIONS

Education			
Education Level	Education Details	Required/ Preferred	
	High School Diploma	Required	

Work Experience

Experience	Experience Details	Required/ Preferred	
3 years	Experience in maintenance, operations or mechanical work in related field.	Required	

Licenses and Certifications

Licenses/Certifications	Licenses/Certification Details	Time Frame	Required/ Preferred	
CDL License	depends on position	within 1 Year	Required	
	Washington State Class A CDL with endorsement N with air brake restriction removed	within 6 Months	Required	and
	Washington State Industrial First Aid/CPR certification	within 6 Months	Required	
	CDL Driver			

Equivalency

All minimum qualifications must be met, there are no acceptable equivalent qualifications.
--

Knowledge, Skills and Abilities

KSAs
Appear for scheduled work and complete assigned tasks within a reasonable period of time.
Establish and maintain effective working relationships with others using tact, courtesy and good judgment.
Maintain confidentiality and adhere to policy and procedures of the county and department.
Communicate effectively orally and in writing.

KSAs	
Utilize various computer applications specific to the department including databases, word processing, document imaging, spreadsheets, and web-based systems for entering, retrieving and researching data and records.	
Physically perform assigned duties and essential functions of the position.	
Knowledge of complex, highly technical tools, materials and chemicals	High
Knowledge of electrical/electronic theory and troubleshooting skills	High
Knowledge of safety and security precautions necessary and applicable in area of assignment	High
Skilled in effective communication, both oral and written, sufficient to exchange or convey information, and to receive and provide work direction	High
Skilled in customer service techniques	High
Skilled in the operation of automotive vehicles and complex equipment and heavy machinery requiring a commercial driver's license	High
Skilled using two-way radios and/or traffic control techniques	High
Skilled in the safe handling and proper disposal of general purpose cleaning chemicals	High
Skilled in working with a variety of individuals from diverse backgrounds	High
Skilled in map reading, in reading and interpreting electronic schematic and logic flow diagrams	High
Ability to operate assigned equipment skillfully, safely and in conformance with applicable laws or regulations.	High
Ability to follow verbal and written instructions.	High
Ability to establish and maintain an effective working relationship with the public and with other County employees.	High
Ability to meet the assignment locations and travel requirements of the position.	High
Knowledge of sound machine shop practices, metallurgy and corrosion prevention, and proper crane operation and rigging.	High
Knowledgeable in water or wastewater treatment process and sewage conveyance systems.	High
Skills required to do the position: welding (MIG, TIG and oxygen), fabrication, plasma cutting, operate pneumatic and hydraulic systems.	High
Ability to troubleshoot and repair a variety of mechanical equipment associated with wastewater treatment, sewage pump stations, and lift stations.	High
Ability to plan, schedule and prioritize workloads.	High
Ability to communicate effectively orally and in writing.	High
Basic computer skills with the ability to run a preventative maintenance software.	High
Safely drive large vehicles such as tankers and dump trucks.	High
Wear personal protective equipment in confined areas and trenches.	High
Ability to act as lead as required.	High
Operate and maintain milling equipment (mills, lathes).	High

Core Competencies

Demonstrates values-based competencies in line with the core values that are the foundation of all activities performed by employees in order to achieve the Mission of the Company:	
Time Management	Uses their time effectively and efficiently; values time; concentrates their efforts on the more important priorities; gets more done in less time than others; can attend to a broader range of activities.
Drive for Results	Can be counted on to exceed goals successfully; is constantly and consistently one of the top performers; very bottom-line oriented; steadfastly pushes self and others for results.
Customer Focus	Is dedicated to meeting the expectations and requirements of internal and external customers; gets first-hand customer information and uses it for improvements in products and services; acts with customers in mind; establishes and maintains effective relationships with customers and gains their trust and respect.

Remote Employment

Remote Employment Type:

Remote Employment Text:	
-------------------------	--

Weight Bearing Activities

Physical Activity Performed	Frequency/Percentage Time/Max Time	Examples of how activity is performed
Weight Bearing (Standing & Walking)		
Weight Bearing Standing		
Weight Bearing - Walking		
Walking on Uneven Terrain	Occasionally: 11-33% - Occurs 31 minutes to 2.5 hours per shift.	remote sites or field work
Running		
Jumping		
Climbing Ladder, stairs, stools	Occasionally: 11-33% - Occurs 31 minutes to 2.5 hours per shift.	Stairs, ladder or accessing equipment
Balancing	Seldom/Infrequent: 1-10% - May occur, but not on a daily basis or less than 30 minutes per shift.	pinking up equipment, loading or opening manholes
Bending at the waist		
Twisting at the waist	Seldom/Infrequent: 1-10% - May occur, but not on a daily basis or less than 30 minutes per shift.	pinking up equipment, loading or opening manholes
Stooping Slight bend at knees	Frequently: 34-66% - Occurs 2.6 to 5.5 hours per shift.	
Squatting		

Other - Non-Weight Bearing

Physical Activity Performed	Frequency/Percentage Time/Max Time	Examples of how activity is performed
Sitting	Frequently: 34-66% - Occurs 2.6 to 5.5 hours per shift.	CDL vehicles equipped with air ride seats, work trucks have bucket seats
Kneeling One or both knees	Frequently: 34-66% - Occurs 2.6 to 5.5 hours per shift.	
Crawling On hands and knees	Seldom/Infrequent: 1-10% - May occur, but not on a daily basis or less than 30 minutes per shift.	
Lying Down		
Back, side or stomach		

Lifting/Carry/Push/Pull

Lifting

Physical Activity Performed	Frequency/Percentage Time/Max Time	Examples of how activity is performed
Lifting 0-10 lbs	Continuously: 67%+ - Occurs more than 5.6 hours per shift.	Hand tools, pneumatic and electric tools and parts
Lifting 11-20 lbs	Continuously: 67%+ - Occurs more than 5.6 hours per shift.	Hand tools, pneumatic and electric tools and parts
Lifting 21-35 lbs	Occasionally: 11-33% - Occurs 31 minutes to 2.5 hours per shift.	parts, floor to waist, intermittently overhead

Lifting

Physical Activity Performed	Frequency/Percentage Time/Max Time	Examples of how activity is performed
Lifting 36-50 lbs	Occasionally: 11-33% - Occurs 31 minutes to 2.5 hours per shift.	parts, floor to waist, intermittently overhead
Lifting 50 + lbs	Seldom/Infrequent: 1-10% - May occur, but not on a daily basis or less than 30 minutes per shift.	jackhammers that weigh 80 to 90lbs make sure to use 2 person to remove from compressor

Carry

Physical Activity Performed	Frequency/Percentage Time/Max Time	Examples of how activity is performed
Carry 0-10 lbs	Frequently: 34-66% - Occurs 2.6 to 5.5 hours per shift.	1ft to 50ft
Carry 11-20 lbs	Frequently: 34-66% - Occurs 2.6 to 5.5 hours per shift.	1ft to 50ft
Carry 21-35 lbs	Occasionally: 11-33% - Occurs 31 minutes to 2.5 hours per shift.	1ft to 50ft
Carry 36-50 lbs	Seldom/Infrequent: 1-10% - May occur, but not on a daily basis or less than 30 minutes per shift.	
	Never: 0% - Does not occur ever, or may not ever occur for some incumbent.	

Pushing

Physical Activity Performed	Frequency/Percentage Time/Max Time	Examples of how activity is performed
Pushing 0-10 lbs	Frequently: 34-66% - Occurs 2.6 to 5.5 hours per shift.	Push/pull parts, tools or equipment
Pushing 11-20 lbs	Frequently: 34-66% - Occurs 2.6 to 5.5 hours per shift.	Push/pull parts, tools or equipment
Pushing 21-35 lbs	Occasionally: 11-33% - Occurs 31 minutes to 2.5 hours per shift.	pushing tools, carts or equipment 1 ft to 50ft
Pushing 36-50 lbs	Occasionally: 11-33% - Occurs 31 minutes to 2.5 hours per shift.	pushing tools, carts or equipment 1 ft to 50ft
	Never: 0% - Does not occur ever, or may not ever occur for some incumbent.	

Pulling

Physical Activity Performed	Frequency/Percentage Time/Max Time	Examples of how activity is performed
Pulling 0-10 lbs	Frequently: 34-66% - Occurs 2.6 to 5.5 hours per shift.	Push/pull parts, tools or equipment
Pulling 11-20 lbs	Frequently: 34-66% - Occurs 2.6 to 5.5 hours per shift.	Push/pull parts, tools or equipment
Pulling 21-35 lbs	Occasionally: 11-33% - Occurs 31 minutes to 2.5 hours per shift.	pushing tools, carts or equipment 1 ft to 50ft
Pulling 36-50 lbs	Occasionally: 11-33% - Occurs 31 minutes to 2.5 hours per shift.	pushing tools, carts or equipment 1 ft to 50ft

Pulling

Physical Activity Performed	Frequency/Percentage Time/Max Time	Examples of how activity is performed
	Never: 0% - Does not occur ever, or may not ever occur for some incumbent.	

Upper Extremity/Arm Movement

	Dominant Arm - Frequency/Percentage Time/Max Time	Non-Dominant Arm - Frequency/Percentage Time/Max Time	Examples of how activity is performed
Reaching Above shoulder level	Occasionally: 11-33% - Occurs 31 minutes to 2.5 hours per shift.	Occasionally: 11-33% - Occurs 31 minutes to 2.5 hours per shift.	Grabbing samples, washing/cleaning equipment
Reaching at shoulder level	Occasionally: 11-33% - Occurs 31 minutes to 2.5 hours per shift.	Occasionally: 11-33% - Occurs 31 minutes to 2.5 hours per shift.	Grabbing samples, washing/cleaning equipment
Reaching below shoulder level	Occasionally: 11-33% - Occurs 31 minutes to 2.5 hours per shift.	Occasionally: 11-33% - Occurs 31 minutes to 2.5 hours per shift.	Grabbing samples, washing/cleaning equipment
Steering Equipment, Vehicles			

Cervical Spine/Neck Movement

Physical Activity Performed	Frequency/Percentage Time/Max Time	Examples of how activity is performed

Upper Extremity/Hand Activities

	Dominant Arm - Frequency/Percentage Time/Max Time	Non-Dominant Arm - Frequency/Percentage Time/Max Time	Examples of how activity is performed
Fine Manipulation	Occasionally: 11-33% - Occurs 31 minutes to 2.5 hours per shift.	Occasionally: 11-33% - Occurs 31 minutes to 2.5 hours per shift.	
Keyboarding/Typing			
Simple Grasp	Continuously: 67%+ - Occurs more than 5.6 hours per shift.	Continuously: 67%+ - Occurs more than 5.6 hours per shift.	holding tools, gear or steering wheel
Up & Down Flexion of Wrist			
Side to Side Motion of Wrist			
Turning/Rotation of wrist/hand			
Gross Manipulation			
Powerful Grasp/Tight Grasp	Continuously: 67%+ - Occurs more than 5.6 hours per shift.	Continuously: 67%+ - Occurs more than 5.6 hours per shift.	Holding tools, gear or steering wheel
Hand Controls	Occasionally: 11-33% - Occurs 31 minutes to 2.5 hours per shift.	Occasionally: 11-33% - Occurs 31 minutes to 2.5 hours per shift.	

Upper Extremity/Hand Activities

	Dominant Arm - Frequency/Percentage Time/ Max Time	Non-Dominant Arm - Frequency/Percentage Time/ Max Time	Examples of how activity is performed
Repetitive Motion	Frequently: 34-66% - Occurs 2.6 to 5.5 hours per shift.	Frequently: 34-66% - Occurs 2.6 to 5.5 hours per shift.	

Sensory Functions (See, Hear, Smell)

Physical Activity Performed	Frequency/Percentage Time/Max Time	Examples of how activity is performed
Sight: Distinguish objects, depth perception, field of vision, color identification, near and far acuity necessary to operate equipment, machinery, etc.	Continuously: 67%+ - Occurs more than 5.6 hours per shift.	Reviewing directions, plans and policies, parts are sometimes color coded,
Hearing: Comprehend oral language and sounds and react appropriately. Follow oral directions.	Frequently: 34-66% - Occurs 2.6 to 5.5 hours per shift.	Listen for sounds, cues or safety warning devices
Speaking: Orally communicate information and ideas with comprehension	Frequently: 34-66% - Occurs 2.6 to 5.5 hours per shift.	Supervisor or Co-workers
Reading: Comprehend and retain the written word.	Frequently: 34-66% - Occurs 2.6 to 5.5 hours per shift.	Diagnostic instruments gauges or screens
Writing: Composing communications in writing		
Math: Compute a series of numeric variables, measurements		

Working Conditions

Physical Activity Performed	Frequency/Percentage Time/Max Time	Examples of how activity is performed
Uneven Ground	Occasionally: 11-33% - Occurs 31 minutes to 2.5 hours per shift.	Remote sites or field work
Exposure to Bloodborne Pathogens		
Work Outside	Occasionally: 11-33% - Occurs 31 minutes to 2.5 hours per shift.	Remote sites or field work
Customer/Public Contact		
Work Inside	Seldom/Infrequent: 1-10% - May occur, but not on a daily basis or less than 30 minutes per shift.	shop/office
High Elevations	Occasionally: 11-33% - Occurs 31 minutes to 2.5 hours per shift.	Access upper levels of equipment
Moving Objects	Frequently: 34-66% - Occurs 2.6 to 5.5 hours per shift.	hoists, lifts and equipment/vehicles

Working Conditions

Physical Activity Performed	Frequency/Percentage Time/Max Time	Examples of how activity is performed
Slippery Surface	Occasionally: 11-33% - Occurs 31 minutes to 2.5 hours per shift.	in field, vaults, manholes and when pumping equipment
Wetness	Continuously: 67%+ - Occurs more than 5.6 hours per shift.	in field, vaults, manholes and when pumping equipment
Temp.Humid/ Extremes	Seldom/Infrequent: 1-10% - May occur, but not on a daily basis or less than 30 minutes per shift.	in field or wearing protective equipment
Temp. Cold Temp	Seldom/Infrequent: 1-10% - May occur, but not on a daily basis or less than 30 minutes per shift.	in field or wearing protective equipment
Confined Spaces	Occasionally: 11-33% - Occurs 31 minutes to 2.5 hours per shift.	entering sewers, tanks, manholes and wells
Special Clothing	Continuously: 67%+ - Occurs more than 5.6 hours per shift.	coveralls, rain gear, and protective equipment
Vibration	Occasionally: 11-33% - Occurs 31 minutes to 2.5 hours per shift.	pneumatic/hydraulic tools and equipment
Use of Solvents	Seldom/Infrequent: 1-10% - May occur, but not on a daily basis or less than 30 minutes per shift.	cleaning solvents
Use of Detergent	Seldom/Infrequent: 1-10% - May occur, but not on a daily basis or less than 30 minutes per shift.	degreasers and soap
Chemical Contact	Occasionally: 11-33% - Occurs 31 minutes to 2.5 hours per shift.	oil, grease, lubricants and fuels
Chemical Vapors	Occasionally: 11-33% - Occurs 31 minutes to 2.5 hours per shift.	oil, grease, lubricants and fuels
Dust or Particles	Seldom/Infrequent: 1-10% - May occur, but not on a daily basis or less than 30 minutes per shift.	dirt and debris, some cutting grinding and welding
Toxic Substances		
Explosives		
Radiation		
Electricity		
Noise intensity		

Mental/Psychological Demands

Mental/Psychological Demands	Required Yes/No (Blank)	Examples
------------------------------	-------------------------	----------

Operational Equipment

Physical Activity Performed	Frequency/Percentage Time/Max Time	Examples of how activity is performed
-----------------------------	------------------------------------	---------------------------------------

Other Requirements

PRE-EMPLOYMENT EXAMS

POST-EMPLOYMENT

COMPENSATION

Annual Max:	\$0.00
Annual Min:	\$0.00
Hourly Max:	\$0.00
Hourly Min:	\$0.00