



CITY OF OMAHA CLASS SPECIFICATION

CLASSIFICATION TITLE: MAINTENANCE MECHANIC II

BARGAINING UNIT: [CIV BARGAINING](#)

CODE NUMBER: 6550

PAY RANGE CODE: [08125](#)

REVISION DATE: 10/26/17

NATURE OF WORK:

This is skilled journey level work involving the installation and maintenance of equipment at the municipal wastewater treatment plants, flood levee, and pump stations. Employees in this class perform major and minor installation and maintenance and may be assigned as lead workers on larger, more difficult projects.

ESSENTIAL FUNCTIONS: *(Any one position may not perform all the duties listed, nor do the listed examples include all the duties that may be performed in positions allocated to this class.)*

Inspects and diagnoses sources of malfunctions in hydraulic, pneumatic and mechanical equipment and determines whether to repair or replace parts and equipment.

Installs, repairs, and maintains wastewater and flood control systems and related equipment, such as belt filter systems, pumps, heaters, motors, augers, compressors, mechanical power transmission equipment, plumbing, hydraulic hose, cylinders, and valves.

Welds broken or worn parts such as shafts, sprockets, and flight shoes.

Performs regular preventive maintenance on hydraulic, pneumatic, and mechanical equipment.

Reads and interprets mechanical drawings, schematics, and blueprints of mechanical, hydraulic, and pneumatic designs.

Prepares daily reports, completes work orders, and maintains preventive maintenance records.

Initiates purchase requisitions and secures repair parts and materials; contacts vendors, sales people, and contractors as needed to attain pricing, availability, and order status.

Maintains the facilities, cuts grass and weeds, breaks up and removes old concrete, mixes and pours new concrete, and repairs or replaces doors, windows, and railings.

Maintains regular job attendance in accordance with a schedule established for the position by the supervisor.

Performs other related duties as assigned or as the situation dictates within the scope of this classification.

REQUIRED KNOWLEDGE, SKILLS, AND ABILITIES:

Knowledge of and ability to operate a computer or other technology using standard or customized computer or systems software applications appropriate to the assigned tasks.

Knowledge of the machinery and equipment operations used in wastewater treatment, flood levee, and pump stations.

Knowledge of purchasing procedures and parts, materials, and supply acquisition.

Skill in performing installation, and maintenance activities on mechanical, pneumatic, and hydraulic equipment.

Skill in the operation of the assigned tools and equipment.

Ability to read and interpret technical materials, schematics, and blueprints of mechanical, hydraulic, and pneumatic designs.

Ability to prepare reports, complete work orders and other forms, and maintain records.

Ability to understand oral and written instructions.

Ability to adhere to safety policies, procedures, and guidelines.

Ability to learn and adapt to advances in computer and electronics device technology and software.

Ability to establish and maintain effective working relationships with fellow employees and members of the general public.

EDUCATION AND EXPERIENCE: *(The knowledge, skills, and abilities above may be acquired through, but are not limited to, the following combination of education and/or experience.)*

High school diploma or its equivalent preferred

AND

Four (4) years of experience in at least two of the following areas: Pumps and motors, hydraulics, or pneumatics.

AND

Responsible experience in the maintenance of equipment found in wastewater treatment facilities, levees, and pump stations.

SPECIAL QUALIFICATIONS

Must possess and maintain a valid motor vehicle operator's license from the time of appointment.

Must possess a forklift operator's permit by the end of the probationary period.

WORKING CONDITIONS: *(The conditions herein are representative of those that must be met by the employee to successfully perform the essential functions of the job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential job functions.)*

Work is performed primarily in and around industrial building sites involving working amid high noise levels, vibrating machinery, moving mechanical parts, electrical currents, working in high places and confined spaces, in conditions such as high humidity, fumes, odors, dust, mists, gases, and exposure to chemicals. Work may also be performed outdoors in all weather conditions.

EQUIPMENT OPERATION: *(Any one position may not use all of the tools and equipment listed nor do the listed examples comprise all of the tools and equipment that may be used in positions allocated to this classification.)*

Pickup Truck	Bar Rakes
Forklift	Electric and Gas Powered Motors
Air Compressor	Drill Presses
Welder	Electric Saws
Generator	Rigid Pipe Threader
Oxygen Acetylene Torch	Self-contained Breathing Apparatus
Hoists and Jacks	H ₂ S Sensing Meters
Electric and Pneumatic Hand Tools	Safety Harness
Pumps	Cranes
Computer	Printer
All wastewater treatment plant operating equipment	

Previous Revision Date(s): 9/24/92
11/21/02
8/30/12

**MAINTENANCE MECHANIC II-ELKHORN
PHYSICAL REQUIREMENTS**

Physical Requirements	EXAMPLES OF RELATED JOB DUTIES	Rarely 1-5%	Occasionally 6-33%	Frequently 34-66%	Continuously 67-100%
Standing	When performing maintenance repair tasks in the shop area.			X	
Walking	Accessing various areas in the facility. Individuals will walk on concrete, uneven terrain, during various weather conditions.			X	
Sitting	Performing computer work and operating the front loader.		X		
Lifting	Raising and lowering an object weighing up to 100 lb.		X		
Carrying	Transporting an object up to 55 lb a distance of up to 50 feet.		X		
Pushing/ Pulling	Pushing/pulling an object up to 75 lb a distance of up to 10 feet.			X	
Climbing	Stairs – Number of stairs varies per building; 23 stairs in a cylindrical stairwell are the most consecutive stairs required. Stairs are located inside and outside. Ladders - climbing vertical ladders, step ladders and extension ladders to access various areas of the facility. Dump Truck - 3 steps at 19", 30" and 40" from the ground. Front Loader - 4 steps at 19", 28", 33" and 42" from the ground. Fine Screen- To clean fine screen, an individual is required to climb over a 42" hand rail. Then the individual is required to access a 52" deep pit in order to clean the screen. UV Bulb Maintenance - Requires a 52" descent/ ascent into pit to change lighting.		X		
Balance	Climbing on ladders and stairs outside during wet weather, walking outside on gravel, uneven ground during various weather conditions. Climbing over hand rails and walking on catwalks. Cleaning center rags.			X	
Stooping	Working on various equipment and pumps below waist level.		X		
Kneeling	To access equipment and parts in the various sites in the building including to access the pumps in the Monroe Grits building.		X		
Crouching	Access various parts and equipment in the influent building and fine screen building.		X		
Reaching	Accessing pipes, valves, pumps to remove, repair and/or replace parts or components.			X	
Hand Usage	Utilizing hand tools, impact wrenches, chop saw, grinders, and power tools when working in the shop area and within the facility. Pinching required when threading/greasing bearings and cleaning out pumps.			X	
Crawling	Accessing pumps throughout the facility.	X			

**MAINTENANCE MECHANIC II-ENVIRONMENTAL QUALITY CONTROL
PHYSICAL REQUIREMENTS**

Physical Requirements	EXAMPLES OF RELATED JOB DUTIES	Rarely 1-5%	Occasionally 6-33%	Frequently 34-66%	Continuously 67-100%
Standing	When performing maintenance repair tasks in the shop area.			X	
Walking	Accessing various areas in the facility. Individuals will walk on concrete, uneven terrain, various weather conditions and both evenings and daylight.			X	
Sitting	Utilizing the computer checking emails and reviewing paper work.		X		
Lifting	Raising and lowering an object weighing up to 83 lb.		X		
Carrying	When moving parts and equipment from inventory or shop area into the truck and from the truck to the various sites within the facility.		X		
Pushing/ Pulling	Maneuvering parts and equipment into place; maneuvering parts and equipment on their work tables; and when performing wrenching tasks.			X	
Climbing	Stairs - to access the top of the digester lid and various other sites throughout the facility. Ladders - to access various sites to inspect, replace or repair equipment Ramps - to access parts and equipment in the secondary building. Scaffolding - on rare occasion to access pipes and other equipment when working in various buildings (Monroe Grit Gallery)			X	
Balance	Works around moving parts, equipment with electrical tools.			X	
Stooping/Crouching	To access various parts and equipment including the Vaughn pump in the digester building.			X	
Kneeling	To access equipment and parts in the various sites in the building including to access the pumps in the Monroe Grits building.		X		
Reaching	Accessing pipes, valves, pumps to remove, repair and/or replace parts or components.			X	
Hand Usage	Utilizing hand tools, impact wrenches, plasma cutter (welder), chop saw, grinders, and power tools when working in the shop area and within the facility. Pinching required when threading nuts and bolts.			X	
Crawling	Accessing pumps throughout the facility.	X			

**MAINTENANCE MECHANIC II-MISSOURI RIVER WASTEWATER TREATMENT PLANT
PHYSICAL REQUIREMENTS**

Physical Requirements	EXAMPLES OF RELATED JOB DUTIES	Rarely 1-5%	Occasionally 6-33%	Frequently 34-66%	Continuously 67-100%
Standing	Performing maintenance repair tasks in the shop area.			X	
Walking	Accessing various areas in the facility. Individuals will walk on concrete, uneven terrain, various weather conditions and both evenings and daylight.			X	
Sitting	Utilizing the computer checking emails and reviewing paper work.		X		
Lifting	Raising and lowering an object weighing up to 83 lb.		X		
Carrying	When moving parts and equipment from inventory or shop area into the truck and from the truck to the various sites within the facility.		X		
Pushing/ Pulling	Maneuvering parts and equipment into place; maneuvering parts and equipment on their work tables; and when performing wrenching tasks.			X	
Climbing	Stairs - to access the top of the digester lid and various other sites throughout the facility. Ladders - to access various sites to inspect, replace or repair equipment Ramps - to access parts and equipment in the secondary building. Scaffolding - on rare occasion to access pipes and other equipment when working in various buildings (Monroe Grit Gallery)			X	
Balance	Works around moving parts, equipment with electrical tools.			X	
Stooping/Crouching	To access various parts and equipment including the Vaughn pump in the digester building.		X	X	
Kneeling	To access equipment and parts in the various sites in the building including to access the pumps in the Monroe Grits building.		X		
Reaching	Accessing pipes, valves, pumps to remove, repair and/or replace parts or components.			X	
Hand Usage	Utilizing hand tools, impact wrenches, plasma cutter (welder), chop saw, grinders, and power tools when working in the shop area and within the facility. Pinching required when threading nuts and bolts.			X	
Crawling	Accessing pumps throughout the facility.	X			

**MAINTENANCE MECHANIC II-PAPIO WASTEWATER TREATMENT PLANT
PHYSICAL REQUIREMENTS**

Physical Requirements	EXAMPLES OF RELATED JOB DUTIES	Rarely 1-5%	Occasionally 6-33%	Frequently 34-66%	Continuously 67-100%
Standing	When performing maintenance repair tasks in the shop area.			X	
Walking	Accessing various areas in the facility. Individuals will walk on concrete, uneven terrain, various weather conditions and both evenings and daylight.			X	
Sitting	Using the motorized cart; when utilizing the computer checking emails and reviewing paper work.		X		
Lifting	Raising and lowering an object weighing up to 113 lb.		X		
Carrying	When moving parts and equipment from inventory or shop area into the Motorized Carts and from the Motorized Carts to the various sites within the facility. Carrying 5 gallon buckets of oil on the cat walk in the Clarifier building.		X		
Pushing/ Pulling	Maneuvering/dragging the grit pump and other parts and equipment into place; maneuvering parts and equipment on their work tables; and when performing wrenching tasks.			X	
Climbing	Stairs - to access the top of the digester lid and various other sites throughout the facility. Ladders - to access various sites to inspect, replace or repair equipment Ramps - to access parts and equipment in the secondary building. Scaffolding - on rare occasion to access pipes and other equipment when working in various buildings (Monroe Grit Gallery)			X	
Balance	Works around moving parts, equipment with electrical tools.			X	
Stooping/Crouching	To access various parts and equipment including the Moyno pump in the digester complex (buildings 900 and 901) there are 12-15 pumps in the basement).			X	
Kneeling	To access equipment and parts in the various sites in the building including to access the pumps in the Monroe Grits building.		X		
Reaching	Accessing pipes, valves, pumps to remove, repair and/or replace parts or components.			X	
Hand Usage	Utilizing hand tools, impact wrenches, plasma cutter (welder), chop saw, grinders, and power tools when working in the shop area and within the facility. Pinching required when threading nuts and bolts.			X	
Crawling	Accessing pumps throughout the facility.	X			