

**KENNEWICK IRRIGATION DISTRICT  
JOB DESCRIPTION**

**Industrial Mechanic**

**REPORTS TO:** Operations Superintendent  
**DATE:** June 2024

**GENERAL SUMMARY:**

Under general supervision from the Operations Superintendent, performs maintenance on the most difficult and complex vehicle and equipment maintenance and repair work such as CAT powered diesel dozers, graders, scrapers and similar heavy equipment. Performs pump and pump station rebuilds as assigned.

**ESSENTIAL DUTIES:** The employee must have the ability to:

1. Inspect, diagnose, and locate mechanical difficulties on District trucks, and a variety of diesel and gasoline powered maintenance and heavy construction equipment.
2. Weld, fabricate and assemble parts and equipment for District automotive and heavy equipment; weld, braze, cut, shape, and fasten metal parts; fabricate and weld hydraulic lines, vehicle frames, chassis, and exhaust systems.
3. Use welding equipment, drill presses, metal brakes, metal shears, lathes, grinders and a large assortment of other power and hand tools and measurement instruments required for journey level fabrication work.
4. Overhaul, repair, and adjust engines, transmissions, differentials, clutches, pumps and valves and heavy construction equipment hydraulic systems.
5. Tune up engines, replacing electrical and electronic parts and cleaning and adjusting carburetors.
6. Replace or repair faulty parts including wheel bearings, clutches, or oil seals, shock absorbers, exhaust systems, steering mechanisms, and related parts and equipment.
7. Install, repair, and replace two-way communication equipment in District owned vehicles.
8. Prepare and replace such components as generators, distributors, relays, lights, and switches.
9. Assist in the purchasing of equipment maintenance parts and materials.
10. Maintain work, time, and material records.
11. Perform any other tasks or functions deemed necessary to the daily operations of the employer.
12. This is a safety sensitive position for which impairment while working presents a substantial risk of death.

**The above list of essential functions is not exhaustive and may be supplemented as necessary by the employer.**

**KNOWLEDGE, ABILITIES AND SKILLS**

The employee must have knowledge of:

1. Tools, equipment, and procedures used in the overhaul, repair, and adjustment of gas-powered and diesel-powered equipment.
2. Operation and care of internal combustion engines, pumping systems, hydraulic equipment.
3. Methods, materials, equipment, and tools used in welding and fabrication work.
4. Operating and repair characteristics of a wide variety of District owned equipment.
5. Safe work practices.
6. Principles of personnel supervision and training.

The employee must have ability to:

1. Perform skilled welding and fabrication work.
2. Perform minor and major mechanical work on mechanical equipment.
3. Use a variety of tools and equipment with skill.
4. Understand and carry out oral and written directions.
5. Perform advanced journey level equipment mechanic work including the troubleshooting of equipment for both major and minor repair work.
6. Work independently in the absence of supervision.
7. Accurately determine mechanical repair needs and estimate the cost and time or repairs.
8. Establish and maintain cooperative working relationships with those contacted in the course of work.

**EXPERIENCE/EDUCATION:** A combination of experience and training that would likely provide the required knowledge and abilities is qualifying.

**Experience:** Two years of increasingly responsible experience working on CAT diesel engines and related equipment maintenance and repair duties.

**Education:** Formal or informal education or training which ensures the ability to read and write at a level necessary for successful job performance including specialized training in the maintenance and repair of gas-powered and diesel-powered equipment.

### **LICENSES/CERTIFICATES**

Possession of, or ability to obtain, an appropriate, valid Washington driver license.

### **OTHER REQUIREMENTS**

1. An acceptable Washington State vehicle driving record

**WORKING CONDITIONS:** Position requires prolonged sitting, standing, walking on level and slippery surfaces, reaching, twisting, turning, kneeling, bending, stooping, squatting, crouching, grasping, and making repetitive hand movement in the performance of daily duties. Incumbents may be required to lift, carry and/or push objects weighing 25 pounds or more. The position requires near and far vision when inspecting work. Incumbents work in all weather conditions, use cleaning and lubricating chemicals which may expose the employee to fumes, dust and air contaminants, drive motorized vehicles, heavy equipment and work around moving traffic and

often works with constant interruptions. The incumbent is also required to climb ladders, use power and noise producing tools and equipment.

### Job Analysis

	N	S	O	F	C	Notes
Climbing				X		Over pipes, down/up metal or wood stairs
Balancing					X	On uneven ground, on ladder
Stooping/Bending					X	On uneven ground; check meter reads, adjusting pumps/installing pumps/checking pump performance
Twisting Squatting/Kneeling					X	On uneven ground, paved/unpaved
Crawling		X				Over under pipes, motors, piping
Foot Controls			X			Vehicle, equipment
Lifting				X		Vault lids, small motors, hoses, inventory
Reaching Forward			X			Open door, adjusting motors; stocking.
Reaching Level			X			Working on engines
Reaching Below Waist			X			Work on meter in meter box, close valve; pulling weeds off weed screens
Reaching Above Shoulder			X			Priming Pumps; Changing light bulb;
Handle/Grasp					X	Pitch fork; small hand tools
Fine Finger Manipulation					X	Tools, steering wheel, parts
Hand Controls		X				Vehicle/backhoe,
Repetitive Motion				X		Body Part: Cycles/hr
Vibratory Tasks			X			Vibration of power/hand tools
Pulling				X		Cleaning weed screens
Talking		X				With customers, peers
Hearing					X	With customers, peers
Visual					X	Light, dark, twilight, inside/outside; peering in; checking mirrors; looking for hazards
<b>Environmental Conditions</b>						
Exposure to Weather					X	Position works outside
Extreme Cold					X	Capital improvement projects
Extreme Heat		X				

	N	S	O	F	C	Notes
Wet and or Humidity			X			Outside position
Proximity to moving mechanical parts				X		Amon Pump; other pumps, motorized weed screens
Noise Intensity – Loud			X			
Exposure to Heights			X			
Exposure to Electricity		X				
Exposure to Toxic/Caustic Chemicals			X			Need to be aware when chemical applications are made to canals
Exposure to Radiation	X					
Other						

Key:

N = Never

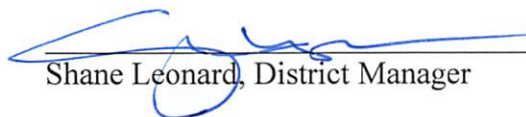
S = Seldom

O = Occasional

F = Frequent

C=Constant

Approved:

  
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 Shane Leonard, District Manager

Date: 6/10/24

Confirmed by Board: June 4, 2024