



Heavy Equipment Mechanic - Job Description

Job Title	Heavy Equipment Mechanic	Department	Public Works
Reports to	Public Works Director	Salary Level	VIIIA
Classification	Non-Exempt	Revision Date	01.31.2020

I. General Description

This position is required to perform skilled work in the maintenance, diagnosis, repair and overhaul of heavy gasoline, diesel and electric powered construction heavy equipment. This is a journeyman level position, working mostly independently with little supervision.

II. Reasonable Accommodations

To perform this job successfully, an individual must be able to perform each essential job duty and physical demands satisfactorily. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential duties.

III. Essential Job Duties

1. Inspect, diagnose, and repair of mechanical, electrical, pneumatic and hydraulic problems on heavy equipment including: motor graders, loaders, excavators, bulldozers, cranes, forklifts, sanding equipment, heavy duty trucks, street sweeper, diesel powered generators, and other heavy duty equipment.
2. Overhaul, repair and adjust Detroit Diesel, Caterpillar, Case, International Harvester, Cummins and John Deere engines; transmissions, differentials, clutches, final drives, steering and suspension systems, air and hydraulic brakes, drive lines and all types of hydraulic and pneumatic components such as pumps, valves, and cylinders.
3. Services heavy equipment in accordance with preventative maintenance schedules.
4. Troubleshoot and repair computerized and electronic control systems, using diagnostic equipment.
5. Perform welding repairs and fabrication.
6. Straighten bent frames, assemble sheet metal parts.
7. Perform tire changes and tire repairs on heavy equipment.
8. Assist with repairs of automobiles and pickup trucks, when needed.
9. Operate all shop tools and equipment for repairing and/or fabricating parts.
10. Keep maintenance shop work areas and tools- clean, organized and in good working order.
11. Order parts and supplies as needed per City procurement standards.
12. Complete, daily and weekly, work orders and heavy equipment maintenance and repair records.
13. Provide labor services as needed in other Public Works departments.



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IV. Knowledge, Skills and Abilities

Knowledge:

This position requires proficiency in the following areas:

1. Knowledge of the standard practices and procedures, theories of operation, materials, tools, and equipment used in the troubleshooting, repair and maintenance of heavy equipment, including diesel and gasoline engines, transmissions, hydraulics, and all systems/components of equipment.
2. Procedures related to the repair of diesel and gasoline fuel systems and hydraulic systems.
3. Good understanding of DC electrical systems, and computer/electronic controls.
4. Basic knowledge of Occupational Safety and Health Administration (OSHA) and AKOSH (Alaska Occupational Safety and Health (AKOSH) standards, and safe work practices.

Skills and Abilities:

This position must demonstrate the following skills and abilities:

1. Ability to perform journeyman level work on heavy equipment, including accurately troubleshooting and completing minor through major repairs of mechanical, electrical and hydraulic malfunctions.
2. Use of shop tools and equipment needed to perform job duties.
3. Operation of the most recent diagnostic equipment required for troubleshooting, adjusting and repairing engines, transmissions, abs brakes, air bags and hydraulics.
4. The ability to read, understand and follow detailed service manuals; and interpret schematics, electrical, hydraulic and other types of schematics of flow charts.
5. Welding skills in stick, mig, and gas welding in all positions. Experience with cutting torch and plasma cutter. Major and minor welding fabrications and repairs.
6. Basic computer skills.
7. Interact with the public in a courteous, helpful and professional manner.
8. Work with co-workers, outside agencies, and vendors in a professional manner.

V. Work Environment and Physical Effort

This position is a physically strenuous and demanding job, requiring lifting, pulling and managing heavy equipment and objects. The Heavy Equipment Mechanic works in all weather, and must be prepared for both extreme heat and cold. The Heavy Equipment Mechanic must ensure that all activities are completed in a safe and efficient way.

The employee must regularly lift and/or move up to 25 pounds, frequently lift and/or move up to 50 pounds, and occasionally lift and/or move up to 70 pounds. Specific vision abilities required by this job include close vision, distance vision, color vision, peripheral vision, depth perception, and the ability to adjust focus.

The Heavy Equipment Mechanic may at times be exposed to dangerous and/or toxic substances



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and must take necessary precautions to protect eyes, nose and skin from irritation and infection.

VI. Education and/or Experience

Education:

1. High school diploma or General Equivalency Degree (GED).
2. Prefer formal technical training or schooling in diesel and heavy equipment repair.

Experience:

1. A minimum of five (5) years of experience as a journeyman heavy duty equipment mechanic. Evidence of comparable experience can be substituted for journeyman experience.

VII. Certification and Training

1. Prefer a valid Alaska Driver's License.
2. Must acquire a Commercial Driver's License (CDL) within 6 months of hire.

VIII. Supervisory Responsibility

Usually none; although the employee may be required to provide training and assistance to less experienced mechanics.

IX. Scope of Employment

Regular/Full time employment, non-exempt position. Requires field work. May be called out at any hour. All needed hand and power tools provided by the City shop.

X. Acknowledgment

I understand the duties of this position as detailed in this job description.

Employee: _____ Date: _____

This job description is accurate and has been reviewed with the above employee:

Supervisor: _____ Date: _____