



## SENIOR EQUIPMENT MECHANIC

AGENCY/DEPARTMENT:  
Public Works/Equipment Services

Approved By HR Director: *Linda Matthe*  
Date Approved: 2-28-06  
Date of Last Revision: 01/03/2005

Reports to: Lead Mechanic  
Supervises: N/A  
Conflict of Interest Code Filer: No

**JOB SUMMARY:** Under general supervision, performs highly skilled mechanical work in the diagnosis, maintenance and repair of City vehicles and equipment; operates vehicle testing and diagnostic equipment and hand and power tools; and performs other related work as necessary.

**DISTINGUISHING CHARACTERISTICS:** The Senior Equipment Mechanic performs complex repair work on heavy-duty vehicles and equipment, including hydraulic systems. It is distinguished from the Equipment Mechanic by the latter's primary responsibility for repair work on automobiles and light-to medium-duty vehicles.

### EXAMPLES OF ESSENTIAL FUNCTIONS:

1. Independently diagnoses problem causes and determines the extent of needed repairs or adjustments for medium and heavy duty vehicles and equipment such as refuse trucks, graders, and tractors.
2. Overhauls and repairs gas and diesel engines and transmissions, including replacement of valves, pistons, piston rings, main bearings, and crank shafts.
3. Performs major engine tune-ups involving testing, adjustment and/or replacement of fuel systems, sparks plugs, points, and related equipment.
4. Repairs front suspension systems, including bushings, king pins, tie rods, and ball joints.
5. Utilizes gas and arc welding equipment to perform minor body repairs and to fabricate special equipment such as shotgun racks and cage barriers on police vehicles.
6. Completes repair order records indicating task, hours expended, and cost of parts.
7. Cleans and maintains work areas.
8. May drive service vehicles and field equipment into and out of the service bays for maintenance work and to perform road tests.

### QUALIFICATION GUIDELINES:

**EDUCATION:** High School diploma or recognized equivalent.

**EXPERIENCE:** Three years of diagnosis, repair and maintenance involving automobiles and light duty vehicles and equipment, including some exposure with heavy equipment maintenance. Completion of vocational training programs in automotive or equipment maintenance and repair may substitute for one year of experience.

**KNOWLEDGE OF:**

- Independent diagnosis and troubleshooting procedures required to solve major maintenance and complex repair problems.

- Operating principles of gasoline and diesel engines, and fuel injection systems.
- Mechanical tune-up, smog testing and general repair and maintenance procedures and techniques.
- Mechanical, electrical, electronic and heavy equipment hydraulic systems.
- Overhaul practices related to transmissions, brakes and rear axles.
- Preventative maintenance procedures.
- Safety rules and precautions governing the operation and use of tools, vehicles and equipment, and proper procedures within work areas.
- Methods, tools, materials, equipment and procedures used in the diagnosis, overhaul, repair and adjustment of the components and operating systems of automobiles, light and heavy duty vehicles and equipment.
- Basic machining techniques.

**ABILITY TO:**

- Use diagnostic equipment such as volt and amp meters and related equipment, and tools including hydraulic and air jacks, tire mounting machines, brake lathes, steam cleaners, welding equipment, lining equipment, electronic diagnostics equipment and measuring devices.
- Operate a variety of hand and power tools and equipment, such as tire changing equipment, grinding equipment, air impact guns and wrench sets.
- Understand more technical maintenance and troubleshooting procedures in vehicle specification manuals.
- Overhaul, repair, maintain, and inspect automobiles, light and heavy duty vehicles and equipment.
- Accurately diagnose the nature and causes of equipment problems and determine effective troubleshooting, repair and maintenance procedures.
- Learn to diagnose computer scanner malfunctions.
- Understand and follow oral and written instructions and safety rules and procedures.
- Complete basic work service records and time reports.
- Communicate effectively both orally and in writing with co-workers, supervisors, management, the public, and other department representatives.
- Provide own work tools to perform job assignments.

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**LICENSES:**

- Valid Class C CA driver license and an acceptable driving record at time of appointment.
- Obtain a valid Class A CA driver license within six months of appointment.

**CERTIFICATIONS:**

- Possession of or ability to obtain Air Conditioning Freon Recycling Certificate within six months of appointment.

**SPECIAL REQUIREMENTS:**

- May be required to work flexible shifts and hours.

**DESIRABLE:**

- Possession of one or more Automotive Service Excellent (ASE) Medium/Heavy Duty Truck certifications.
- Experience in the repair of medium to heavy-duty vehicles and equipment.

**FLSA Exemption Status:** Non-Exempt

**Employee Unit:** # 6, Miscellaneous Services

**DOT Program Participant:** Yes

**Job Family:** Equipment Svcs - Trades

**Class Progression:**      Equipment Service Technician  
                                 Equipment Mechanic  
                                 Senior Equipment Mechanic  
                                 Lead Mechanic