



## **MECHANIC**

### **DEFINITION**

Under general supervision, performs skilled mechanical work in the inspection, diagnosis, servicing, and maintenance of a variety of large and small City vehicles and equipment; performs related inventory, purchasing, welding, and record-keeping duties; and performs related duties, as assigned.

### **SUPERVISION RECEIVED AND EXERCISED**

Receives general supervision from the Public Works Supervisor and technical and functional direction and training from the Senior Mechanic. Exercises no direct supervision over staff.

### **CLASS CHARACTERISTICS**

This is the journey-level classification in the mechanic series. Positions at this level receive only occasional instruction or assistance as new or unusual situations arise and are fully aware of the operating procedures and policies of the work unit. Work is normally reviewed upon completion and for overall results. This is a technical classification performing a variety of vehicle and equipment maintenance and repair duties. Incumbents serve to relieve the supervisor of performing technical detail work and are expected to function with very little direct oversight. Successful performance of the work requires knowledge of departmental and City activities. This class is distinguished from the Senior Mechanic in that the latter provides technical and functional direction to lower-level support staff and is responsible for the most complex work.

### **EXAMPLES OF TYPICAL JOB FUNCTIONS (Illustrative Only)**

*Management reserves the right to add, modify, change, or rescind the work assignments of different positions and to make reasonable accommodations so that qualified employees can perform the essential functions of the job.*

- Performs skilled mechanical work in the inspection, diagnosis, servicing, and maintenance of a variety of large and small vehicles and equipment such as generators, cars, fire trucks, snow plows, trailers, mowers, and tractors; ensures safe and effective operating condition of City vehicles and power-driven equipment.
- Inspects a variety of vehicles and equipment according to established guidelines and procedures; troubleshoots, diagnoses, and resolves electrical, mechanical, hydraulic, computerized, and other types of vehicle and equipment malfunctions; repair or replace parts and components as needed.
- Performs scheduled safety inspections and preventive maintenance of vehicles and equipment; identifies safety hazards and makes necessary adjustments to ensure safe operation.
- Services vehicles by ensuring satisfactory fluid levels; checks and replenishes air levels in tires; replaces tires and installs snow chains as necessary; adjusts, repairs, and maintains air and hydraulic brake systems; adjusts and replaces brake shoes, pads and linings; turns drums and rotors; performs engine inspections, maintenance, and repairs; performs tune-ups on City vehicles and equipment.
- Diagnoses, repairs, adjusts, and replaces various components such as vehicle transmissions, carburetors, batteries, alternators, radiators, hoses, belts, distributors, differentials, drive shafts, clutches, pumps, shocks, cylinders, valve controls, generators, ignitions, bearings, and gears.

- Estimates material and equipment needed for projects; monitors inventory levels of parts, supplies, and equipment; contacts vendors to obtain product and pricing information; orders items from vendors according to cost effectiveness and timeliness of product delivery.
- Operates a variety of equipment including hand and power tools, welders, torches, jacks, grease guns, presses, compressors, testers, meters and forklifts; maintains equipment in proper working condition; drives a vehicle to conduct work.
- Performs a variety of welding activities involved in the repair of various machine parts.
- Maintains a variety of records related to maintenance schedules, vehicles, equipment, costs, warranties, recalls, and assigned projects.
- Plans and organizes assigned tasks; interprets diagrams, sketches, schematics, technical manuals, and specifications; works from verbal and written instructions and work orders.
- Responds to regular and emergency maintenance and repair requests; travels to various City sites to make repairs to vehicles and equipment; uses a map to locate disabled vehicles; arranges for major maintenance and repairs with outside agencies as needed.
- Maintains shop area, equipment, and tools in a safe, clean, and orderly condition; assists with related building maintenance functions including installation and renovation activities.
- Performs other related duties as assigned.

## **QUALIFICATIONS**

### **Knowledge of:**

- Techniques, practices, procedures, tools, and materials used in the repair and maintenance of large and small vehicles and equipment.
- Diagnostic procedures for vehicles and equipment.
- Practices, procedures, techniques and equipment used in welding and metal fabrication.
- Operation, theory, and principles of gasoline, diesel, and alternative-powered engines.
- Preventative maintenance practices and procedures.
- Shop math applicable to vehicle maintenance.
- Record-keeping techniques.
- Health and safety regulations.
- Techniques for providing a high level of customer service by effectively dealing with the public, vendors, contractors, and City staff.
- The structure and content of the English language, including the meaning and spelling of words, rules of composition, and grammar.
- Modern equipment and communication tools used for business functions and program, project, and task coordination.
- Computers and software programs (e.g., Microsoft software packages) to conduct, compile, and/or generate documentation.

### **Ability to:**

- Perform skilled mechanical work in the inspection, diagnosis, servicing, and maintenance of a variety of large and small vehicles and equipment.
- Troubleshoot, diagnose, and resolve electrical, mechanical, hydraulic, computerized, and other types of vehicle and equipment malfunctions.
- Repair or replace parts and components as needed.
- Perform scheduled safety inspections and preventive maintenance of vehicles and equipment.
- Estimate and procure materials and equipment needed for projects.
- Read and work from diagrams, sketches, schematics, technical manuals and specifications.
- Operate a variety of hand and power tools including welding equipment.
- Understand, interpret, and apply all pertinent laws, codes, regulations, policies and procedures, and

standards relevant to work performed.

- Effectively represent the department and the City in meetings with governmental agencies; community groups; various business, professional, and regulatory organizations; and in meetings with individuals.
- Learn and understand the organization and operation of the City and of outside agencies as necessary to assume assigned responsibilities.
- Independently organize work, set priorities, meet critical deadlines, and follow-up on assignments.
- Effectively use computer systems, software applications, and modern business equipment to perform a variety of work tasks.
- Communicate clearly and concisely, both orally and in writing, using appropriate English grammar and syntax.
- Use tact, initiative, prudence, and independent judgment within general policy, procedural, and legal guidelines.
- Establish, maintain, and foster positive and effective working relationships with those contacted in the course of work.

### **Education and Experience:**

*Any combination of training and experience that would provide the required knowledge, skills, and abilities is qualifying. A typical way to obtain the required qualifications would be:*

Equivalent to graduation from the twelfth (12<sup>th</sup>) grade supplemented by completion of an approved apprenticeship program in automotive repair and one (1) year of work experience in the maintenance and repair of large and small vehicles and equipment.

### **Licenses and Certifications:**

- Possession of a Class B driver's license is required by the State of California, Department of Motor Vehicles, to perform the duties of the position.

### **PHYSICAL DEMANDS**

Must possess mobility to work in the field; strength, stamina, and mobility to perform medium to heavy physical work, to work in confined spaces and around machines, to climb and descend ladders, to operate varied hand and power tools and construction equipment, and to operate a motor vehicle and visit various City sites; vision to read printed materials and a computer screen; and hearing and speech to communicate in person and over the telephone or radio. The job involves fieldwork requiring frequent walking in operational areas to identify problems or hazards. Finger dexterity is needed to access, enter, and retrieve data using a computer keyboard or calculator and to operate above-mentioned tools and equipment. Positions in this classification bend, stoop, kneel, reach, and climb to perform work and inspect work sites. Employees must possess the ability to lift, carry, push, and pull materials and objects weighing up to 50 pounds, or heavier weights with the use of proper equipment and assistance from other staff.

### **ENVIRONMENTAL CONDITIONS**

Employees work in the field and are exposed to loud noise levels, cold and hot temperatures, inclement weather conditions, road hazards, vibration, confining workspace, chemicals, mechanical and/or electrical hazards, and hazardous physical substances and fumes. Employees may interact with members of the public or with staff under emotionally stressful conditions while interpreting and enforcing departmental policies and procedures.