



## **SENIOR EQUIPMENT MECHANIC**

### **DEFINITION**

Under direction, performs the full range of duties on fire apparatus/equipment and gasoline or diesel-powered heavy vehicles and equipment, which includes diagnostic tests, skilled maintenance and mechanical repair; reads and interprets repair manuals and diagnostic results; and performs related work as required.

### **SUPERVISION RECEIVED AND EXERCISED**

Incumbent receives direction from the Fleet Services Supervisor and may exercise technical and functional direction over assigned staff.

### **CLASS CHARACTERISTICS**

This is a single incumbent, advanced journey-level classification in the Equipment Mechanic class series. This classification performs the full range of diagnostic and mechanical repairs on fire apparatus, fire equipment, and heavy-duty vehicles/trucks, and equipment requiring specialized knowledge. Employees at this level are required to be fully trained in all technical aspects of assigned area of responsibility. Incumbents work under direction and exercise a high level of discretion, initiative, and independent judgment in performing the full range of routine to complex job duties as described herein.

This class is distinguished from the Equipment Mechanic I/II, in that the Senior Equipment Mechanic has the primary responsibility for the repair and maintenance of fire apparatus, pumps, and equipment.

This class is further distinguished from the Fleet Services Supervisor, which has supervisory oversight and responsibilities over the equipment mechanic staff and unit.

### **ESSENTIAL DUTIES**

Duties may include, but are not limited to the following:

- Inspects, diagnoses, and repairs fire vehicle mechanical and electrical problems in both gasoline and diesel-powered equipment; dismantles, rebuilds, replaces, and adjusts engines, brakes, transmissions, drive-lines, and parts of electrical, fuel, exhaust, cooling, suspension, and equipment hydraulic systems using power and hand tools; tunes gasoline and diesel engines to ensure proper operation.
- Performs difficult, technical, and complex equipment repair and maintenance tasks, including locating and diagnosing complex mechanical defects; fabricates special bodies and parts as necessary using a wide variety of hand and power tools used in the work, including stick, metal inert gas (MIG) and tungsten inert gas (TIG) welding equipment.

- Performs repairs on various types of pumps, motors and valves, gasoline and diesel engines, simple and complex hydraulic systems, various electronic, gasoline and diesel engine controlling devices and systems; circuit boards, switches, and control panels, in addition to other complex electro-mechanical, electro-pneumatic or electro-hydraulic equipment.
- Estimates time and material requirements; reads and interprets shop manuals and specifications; provides technical assistance to assigned equipment maintenance personnel; reviews and monitors completed work to ensure quality control standards are met including road testing equipment; coordinates pickup and delivery of equipment.
- Performs periodic test on pumpers, elevated platforms, and aerial ladders.
- Responds to emergency calls to repair fire apparatus and heavy equipment at different locations.
- Ensures the proper maintenance, repair and storage of all shop tools and equipment.
- May perform general overhaul and repair work on gasoline, diesel, propane, and electrical engines such as automobiles, trucks, tractors, and other automotive and mechanical equipment.
- Orders needed supplies; ensures maintenance of an adequate inventory to accomplish assigned jobs.
- Keeps required labor, equipment and material records, and submits reports as directed.
- May be required to test and transport fire apparatus, service vehicles and trucks.
- May act on behalf of the Fleet Services Supervisor in their absence.
- Performs related duties as assigned.

## **QUALIFICATIONS**

### **Knowledge of:**

- Heavy duty vehicles, trucks and fire apparatus equipment.
- Diagnostic, overhaul, and repair techniques for heavy gasoline and diesel-powered equipment, fire equipment and related components such as fire pump transmissions, valves, aerial ladders, foam systems, and dry chemical systems, etc.
- Principles and practices of repair, overhaul, servicing and preventive maintenance of heavy and light gasoline and diesel-powered equipment.
- Applicable local, state, federal rules, regulations, and laws; CAL/OSHA requirements, and other relevant codes and regulations.
- Techniques, methods, materials, tools and equipment used in the overhaul, servicing, and preventive maintenance of heavy and light vehicles and gasoline and diesel-powered equipment.
- Safe work methods and safety practices pertaining to the work.
- Operation and maintenance of a wide variety of equipment, hand, shop, and power tools used in the work, including stick, MIG and TIG welding equipment.
- Record keeping principles and procedures.
- Shop arithmetic.
- Computer applications related to work, including inventory control and fleet record keeping.
- Techniques for providing a high level of customer service to the public and City staff, in person

and over the telephone.

- Principles and techniques for working with groups and fostering effective team interaction to ensure teamwork is conducted smoothly.
- The structure and content of the English language, including the meaning and spelling of words, rules of composition, and grammar.

**Ability to:**

- Recognize and diagnose in fire apparatus and other heavy equipment.
- Repair and overhaul heavy gasoline and diesel-powered equipment and related fire components.
- Read and comprehend schematics, fabricate special bodies, parts and essentials as necessary.
- Identify and implement effective courses of action to complete assigned work.
- Make extensive repairs of motors, transmissions, differentials, chassis parts, and electrical, fuel, ignition, cooling, steering, hydraulic and air systems, including proper testing and adjustments.
- Operate a wide variety of hand and power tools in a skillful manner, including cutoff tools, drills, grinders, MIG/TIG welders, and stick welders.
- Conduct safety inspections and establish safe procedures.
- Estimate needed materials and labor and secure sufficient quantities.
- Inspect the work of others and maintain established quality control standards.
- Work effectively without immediate supervision.
- Read, interpret and understand manuals, specifications, and drawings.
- Practice safe work habits.
- Maintain clear and accurate records.
- Make accurate arithmetic calculations.
- Independently organize work, set priorities, meet critical time deadlines, and follow-up on assignments.
- 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 the work.

**Education and Experience**

*A combination of education and experience which would provide the required knowledge and abilities is qualifying. Note: education may not fully substitute for the required experience unless expressly stated herein.*

Equivalent to a high school diploma;

**AND**

Four (4) years of journey-level experience in heavy equipment maintenance and repair, with broad

exposure to a variety of trucks, diesels, specialized road equipment, and hydraulic systems of which one (1) year must be related to the maintenance and repair of fire apparatus.

### **Licenses and Certifications**

- Possession of, or ability to obtain and maintain, a valid California Class C Driver License and a satisfactory driving record is required. Individuals who do not meet this requirement due to a disability will be reviewed on a case-by-case basis.
- Possession of, and the ability to maintain a valid California Fire Mechanic I or Emergency Vehicle Technician Level I certification issued by the California Office of the State Fire Marshal.
- Possession of, and the ability to maintain a valid California Class A driver license with a tanker endorsement is required within twelve (12) months of appointment.
- An Automotive Service Excellence (ASE) master certification in both automobiles and trucks is desirable.

### **PHYSICAL DEMANDS**

Must possess mobility to work in a standard shop setting and use and operate a variety of tools, power tools, equipment and machinery; operate a motor vehicle and drive on surface streets in order to identify mechanical issues, identify and locate parts and repair tools/equipment, inspect, analyze, and diagnose problems with automobiles, trucks, and a variety of gasoline and diesel powered maintenance and construction equipment; strength, stamina, and mobility to perform medium to heavy physical work; vision to read printed materials and a computer screen; color vision to read various dials, gauges, and identify color-coded cables and wires; hearing and speech to communicate in person and over the telephone; ability to walk and work on slippery or uneven surfaces; ability to bend, stoop, kneel, reach, and climb to perform work; lift, move, and carry materials and equipment weighing up to 70 pounds.

### **ENVIRONMENTAL CONDITIONS**

Employees primarily work in the centralized maintenance shop and are exposed to loud noise levels, vibration, confining workspace, chemicals, dust, paint fumes, mechanical and/or electrical hazards, grease, oils, solvents, machinery with extremely hot surfaces and/or moving parts, and moving objects or other vehicles. Employees may interact with upset staff when trying to diagnose and/or resolve an equipment related problem.

### **WORKING CONDITIONS**

Employees may be required to work evenings, weekends, and holidays, as well as participate in after hours on-call assignments. This class is subject to random drug testing in accordance with federal Department of Transportation guidelines.

All City of Rocklin employees are designated as Emergency Service Workers during a proclaimed emergency and may be required to perform certain emergency services at the direction of the department and/or City.

*This class specification should not be construed to imply that these requirements are the exclusive standards of each position as not all duties are necessarily performed by each incumbent.*

Adopted	March 1997
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FLSA	Non-Exempt
Salary Schedule	AFSCME/Range 28