

534512/19/05

Revised

**CITY OF RIVERSIDE**  
**HUMAN RESOURCES DEPARTMENT**  
**CLASSIFICATION SPECIFICATION**

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**TITLE: FIRE MECHANIC**

**DEFINITION**

Under general supervision, to perform skilled journey level mechanical repair and preventative maintenance work on a variety of light and heavy mobile fire equipment and apparatus; and to do related work as required.

**DISTINGUISHING CHARACTERISTICS**

This is a journey level position distinguished from the Senior Mechanic class in that incumbents perform specialized work on fire equipment and apparatus requiring specialized training, skills and certification. Incumbents may perform work on automotive and other vehicles and equipment on an as-need basis.

**REPORTS TO:** Fleet Maintenance Supervisor

**SUPERVISION RECEIVED AND EXERCISED**

Receives general supervision from the Fleet Maintenance Supervisor.

**EXAMPLES OF DUTIES**

Typical duties may include, but are not limited to, the following:

- Inspect, diagnose and repair mechanical defects on gas and diesel powered light and heavy duty fire vehicles, equipment and apparatus, such as fire pumpers, ladder trucks, aerial telesquirts and rescue squads.
- Diagnose and repair computer controlled vehicles and equipment, emission systems and their related components.
- Disassemble components and repair or replace defective parts.
- Perform minor and major tune-ups overhauls on automotive and heavy duty engines.
- Perform major repair work on water pumps and gear boxes, water valves and instrumentation, drive-train, steering, hydraulic, electrical, suspension, air compression, air/hydraulic brake systems, ignition, hydraulic pumps and controls and air conditioning systems.
- Perform major and minor repairs and installation of new parts.
- Perform routine vehicle and equipment inspection and maintenance.
- Perform occasional metal work such as cutting, welding, soldering, minor fabrication and outfitting of new vehicles.
- Maintain computer based time and material records on all completed work.
- Maintain and repair gas and diesel-powered light and heavy fire equipment and apparatus such as automobiles, trucks, pumps and generators on an as-needed basis.
- Respond to emergencies fire alarms as needed to make field repairs to fire equipment.
- Assist in providing direction and training of semi-skilled personnel.

- Assist with scheduling of UL ladder testing of apparatus, repairs and re-inspections.
- Perform annual fire water pump testing and repairs to maintain City insurance rating.
- Assist with vehicle specification preparation, and inspection of new fire equipment and apparatus

## **QUALIFICATIONS**

### **Knowledge of:**

- The techniques, theory, methods and care of overhauling and repairing diesel and gasoline powered internal combustion engines, equipment and related components, including water pump, drive, fuel and electrical systems.
- Preventative maintenance inspection methods; electricity, hydraulics, mechanics and the methods, materials and tools used in the light and heavy fire equipment and apparatus repair trade.
- Occupational Hazards and standard safety precautions necessary in the performance of work.

### **Ability to:**

- Read and interpret pertinent laws, codes, safety orders, repair manuals, wiring diagrams, schematics and screens of PC based scopes, online technical repair databases, and scan tools.
- Perform journey level equipment mechanical work including troubleshooting of fire equipment and apparatus for both major and minor repair.
- Accurately determine mechanical repair needs.
- Diagnose mechanical trouble and determine appropriate maintenance work.
- Assist in providing direction and training of semi-skilled personnel.
- Work productively in the absence of supervision.
- Safely operate City vehicles.
- Understand and carry out oral and written directions.
- Establish and maintain effective working relationships with supervisors, fellow employees, contractors and the general public.
- Perform all tasks in accordance with applicable Federal, State, OSHA and NFPA safety standards.
- Maintain work area in a clean and neat condition.
- Work overtime as required.
- Work weekends, holidays, evenings and/or varying shifts.

### **Education and Experience:**

Any combination of experience and education that would likely provide the required knowledge and abilities is qualifying. A typical way to obtain the knowledge and abilities would be:

Education: Equivalent to the completion of the twelfth grade, supplemented by specialized training in the maintenance and repair of gas and diesel powered equipment. The completion of a recognized apprenticeship or possession of mechanical certifications from a professionally recognized institution is highly desirable. The completion of levels I and II Fire Mechanic

Certification from a professionally recognized institution is highly desirable.

**Fire Mechanic**  
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Experience: Two years of skilled journey level experience in automotive and heavy equipment repair work, and at least one year of experience in the maintenance of fire equipment and apparatus.

**MEDICAL CATEGORY:** Group 2

### **WORKING CONDITIONS**

Work is performed in a variety of environmental conditions, indoors and out, with exposure to wide temperature variations, noise, vibrations, fumes, grease and oils, machinery and its moving parts, odors and dust. Physical demands require bending, stooping and frequent heavy lifting of moderately heavy objects weighing up to fifty pounds. Some exposure to irritating chemicals. Incumbent must be able to see and hear in the normal range with or without correction.

### **NECESSARY SPECIAL REQUIREMENT**

Possession of, or ability to obtain, an appropriate, valid class "C" California Motor Vehicle Operator's License.

Possession or, or ability to obtain during the probationary period, a valid Class "A" California Motor Vehicle Operator's License.

Automotive Service Excellence (ASE) certification is highly desirable. Successful completion of ASE Series test Medium and Heavy Duty Truck Series T2, T4, T5 and T6 and certifications in medium and heavy duty truck speciality areas is required upon completion of probation.

Fire Mechanic Certification is highly desirable. Successful completion of level 1 certification is required within two years of employment.

Required journey level hand tools sized to a minimum of 1 1/2".

### **CAREER ADVANCEMENT OPPORTUNITIES**

**FROM:** Fire Mechanic

**TO:** Equipment Maintenance Supervisor