

## FIRE EQUIPMENT MECHANIC II

### **DEFINITION**

Under general supervision, maintains and repairs Fire Department heavy and light equipment, apparatus, and related fire-fighting equipment.

### **SUPERVISION RECEIVED/EXERCISED**

Receives supervision from the Equipment Supervisor. This class does not exercise supervision.

### **DISTINGUISHING CHARACTERISTICS**

Fire Equipment Mechanic II is the journey level class in the Fire Department's Fire Equipment Mechanic series. Incumbents perform fully skilled tasks in the diagnosis, maintenance and repair of all fire apparatus and related equipment. This class differs from Fire Equipment Mechanic I in that the latter is the entry level class in the series. This class differs from Fire Equipment Mechanic Leadworker in that the latter is the advanced working/lead level classification.

### **EXAMPLES OF IMPORTANT AND ESSENTIAL DUTIES**

*may include but are not limited to the following:*

Maintains and repairs all Fire Department equipment and apparatus including engines, trucks, air brake systems, and ladders; designs and constructs component parts and units necessary to the operation of equipment and apparatus.

Rebuilds parts, such as fire apparatus pumps and valves, transmission mounts, brackets and clamps.

Rebuilds, repairs and maintains heavy duty air brake and hydraulic systems.

Diagnose and repair electronic systems and electrical wiring circuits.

Performs fabrication tasks using lathes, shapers, drill presses, and welding equipment.

Fills and repair Self Contained Breathing Air (SCBA) and air cylinders as needed.

Disassembles, cleans, repairs and tests pumps, air compressors, resuscitators, extension ladders, and related Fire Department equipment.

Repairs and overhauls diesel and gasoline engines, ignition systems, electronic systems, air brake systems, transmissions, differentials, front and rear axle assemblies; repairs and installs hydraulic controls; tunes motors using standard testing equipment.

Performs related duties as required.

**JOB RELATED AND ESSENTIAL QUALIFICATIONS:**

**Knowledge of:**

The methods, materials, tools, and techniques used in the maintenance and repair of heavy and light equipment.

Hydraulics and pump operations, air brake systems, electronic controls and electrical wiring systems.

The operating principles of gasoline and diesel engines, and of mechanical repair of trucks and firefighting apparatus and equipment.

The pertinent OSHA requirements, occupational hazards and safety precautions of the trade.

**Ability to:**

Diagnose defects in heavy and light equipment.

Adapt available tools, test equipment and repair parts to specific repair problems.

Perform basic acetylene and electric welding.

Interpret and work from sketches and diagrams.

Operate computers and applicable software applications for basic data entry necessary for completion of assigned duties and daily reports.

**Skill in:**

The use of drill presses, lathes, micrometers, calipers, and other standard tools and equipment of the machinist trade.

Use of electronic diagnostic equipment and diagnostic software programs.

**MINIMUM QUALIFICATIONS**

**Education:**

Possession of a High School Diploma or equivalent GED completion, and

**Experience:**

One year of experience equivalent to that gained as a Fire Equipment Mechanic I with the City of Fresno.

**Necessary Special Requirements:**

Possession at time of application of two (2) valid Medium-Heavy Truck certifications issued by the National Institute for Automotive Service Excellence (ASE).

Within four (4) years of appointment as a Fire Equipment Mechanic II, incumbent shall become certified by the California Office of the State Fire Marshal (OSFM) as a Fire Mechanic II. All required ASE and OSFM Fire Mechanic Certifications shall be maintained for entire term of assignment. Failure to obtain the required certification within the specified time period shall be cause for termination from this class.

A Fire Equipment Mechanic I may be promoted to a Fire Equipment Mechanic II prior to obtaining the Fire Mechanic I certification. Incumbents promoted without possession of the Fire Mechanic I certificate must obtain the required certification within two years from date of appointment as a FEM I. Failure to obtain the required certification within the specified time period shall be cause for termination from this class.

Possess a valid California Driver's License at time of appointment. Within thirty (30) days of appointment must obtain, and maintain for the entire term of employment in this class, a valid Class B California Driver's License.

APPROVED: \_\_\_\_\_  
Director of Personnel Services

DATE: \_\_\_\_\_

TJ:ar: 5/5/14

Revised: TJM:scm: 8/21/15