

FIRE EQUIPMENT MECHANIC I**DEFINITION**

Under close supervision, maintains and repairs Fire Department heavy 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 I is the entry level class in the Fire Department's Fire Equipment Mechanic series. Applying previously acquired mechanical skills, incumbents perform regularly scheduled maintenance and minor repairs, while learning the special skills required to maintain and repair fire apparatus and related equipment. This class differs from Fire Equipment Mechanic II in that the latter is the journey level class in which incumbents are expected to independently diagnose and complete maintenance and repair assignments with minimal supervision.

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 pumps, valves, transmission mounts, brackets and clamps.

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

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

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

Assist Fire Equipment Mechanic II's with repair and overhaul of 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.

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

Ability to:

Diagnose defects in heavy and light equipment.

Adapt test equipment, available tools 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 an Equipment Service Worker II with the City of Fresno, gained experience must be in a heavy/transit equipment repair operation; OR Completion of an approved heavy equipment apprenticeship program.

Necessary Special Requirements:

Possession at time of application of one (1) valid Medium-Heavy Truck certification issued by the National Institute for Automotive Service Excellence (ASE).

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

A Fire Equipment Mechanic I, after a minimum of 6 months of satisfactory performance with the City of Fresno, possession of required certifications, and upon recommendation of the appointing authority may be promoted to Fire Equipment Mechanic II.

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.

Incumbents shall undergo the process of meeting the educational and certification requirements set forth in the California Office of the State Fire Marshal (OSFM) Training Procedures Manual for Fire Mechanic I (Fire Pumps and Accessories).

Fire Mechanic I certification shall be obtained within 2 years from date of appointment as a Fire Equipment Mechanic I. Failure to obtain the required certification within the specified time period shall be cause for termination.

APPROVED: _____ DATE: _____
Director of Personnel

TJ: ar: 5/5/14
Revised: TJM:scm: 8/21/15