

FIRE EQUIPMENT MECHANIC II

DEFINITION

Under general supervision, maintains and repairs light and heavy fire vehicles, apparatus, and related 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 Equipment Mechanic series. Incumbents perform fully skilled tasks in the diagnosis, maintenance and repair of light and heavy fire vehicles, 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.

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, and related equipment.

Respond to road calls to repair fire equipment and other related equipment.

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

Maintains records of work performed and assists in the training of personnel.

Maintains a clean work area and assists with the cleaning of shop areas and equipment and follows Occupational Safety and Health Administration (OSHA) and other required safety standards.

May support Fire Department with needed equipment.

Performs related duties as required.

JOB RELATED AND ESSENTIAL QUALIFICATIONS:

Knowledge of:

Methods, materials, tools, and equipment used in the maintenance and repair of heavy and light equipment and apparatus.

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

Occupational hazards and safety precautions of the trade, including the handling of hazardous materials.

Skill/Ability to:

Properly and safely use hand and power tools and equipment used in automotive maintenance and repair.

Diagnose malfunctioning mechanical and electrical systems and related sub-systems.

Interpret and work from manuals, schematics, sketches, diagrams, and work orders.

Use diagnostic tools utilized in assigned area of responsibility.

Understand and carry out oral and written instructions.

Perform basic acetylene and electric welding.

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

Establish and maintain effective working relationships with those contacted in the performance of assigned duties.

Operate a motor vehicle safely.

MINIMUM QUALIFICATIONS

Education:

Possession of a High School Diploma or equivalent GED completion.

Experience

Two (2) years of full-time paid experience performing routine maintenance and simple repairs on diesel, gasoline, and alternative fuel powered cars, trucks, buses, construction, and other related vehicles and equipment.

A certification of completion or Associates Degree from a recognized vocational, technical, college or university program in automotive or heavy equipment technology or related field may be substituted for one (1) year of experience.

Special Requirement(s):

Possession of the following three (3) valid certificates issued by the National Institute for Automotive Service Excellence (ASE) in the Medium-Heavy Truck (T) Series

- Brakes (T4)
- Steering & Suspension (T5)
- Preventive Maintenance Inspection (T8)

Within twelve (12) months of appointment must obtain the following three (3) additional ASE certifications in Medium-Heavy Truck (T) Series:

- Gasoline Engines (T1)
- Diesel Engines (T2)
- Drive Train (T3)

Incumbents must take the above three (3) certification examinations within the first six (6) months of appointment. Failure to obtain the ASE certifications within twelve (12) months of appointment will be cause for termination from this class.

Possession of a valid California Commercial Class B California Driver's License with required endorsements and without air brake restriction is required at time of application and continued maintenance throughout the entire term of employment in this classification.

May be required to obtain and maintain a valid Commercial Class A California Driver's License with required endorsements and without air brake restrictions within twelve (12) months of request from department.

Completion of California Office of the State Fire Marshal's (OSFM) Emergency Vehicle Technician (EVT) training course 1C: Pumps and Accessories is required at the time of application. Incumbents who currently possess a valid OSFM Fire Equipment Mechanic I certification will qualify as the OSFM transitions to the completion of EVT certifications.

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 Emergency Vehicle Technician (EVT) I. Incumbents must submit the application for EVT I Certification within sixty (60) calendar days of completion of the required training courses.

All required ASE and OSFM EVT Certifications shall be maintained throughout the entire term of employment. Failure to obtain and maintain the required certifications and licenses within the specified time period shall be cause for termination from this classification.

PHYSICAL DEMANDS

The physical demands described here are representative of those that are necessary to safely, effectively, and efficiently perform the essential functions of this job with or without reasonable accommodation.

This classification's physical demands involve very heavy work which requires occasionally exerting in excess of 100 pounds of force occasionally with assistance, and/or in excess of 50 pounds of force frequently, and/or in excess of 20 pounds of force constantly to move objects. Additionally, the following physical demands may be required: balancing, bending, climbing, crawling, crouching, feeling, manual dexterity, grasping, gripping, handling, hearing, kneeling, lifting, mental acuity, pulling, pushing, repetitive motion, speaking, standing, stooping, talking, twisting, visual acuity, walking.

APPROVED: Signature on File
Director of Personnel Services

DATE: 10/20/2025

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