

FIRE EQUIPMENT MECHANIC I

DEFINITION

Under 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 Equipment Mechanic series. Incumbents apply acquired mechanical skills and learn the special skills required to maintain and repair light and heavy fire equipment, 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 experienced in the diagnosis, maintenance, and repair of light and heavy vehicles and equipment.

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 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, and related equipment.

Responds to road calls to repair light automotive and mechanical equipment.

Learns the disassembly, reassembly, preventative maintenance and inspection, diagnose, installation, and repair of diesel, gas, and alternative fuel engines, drive train, brakes, suspension, steering, electrical systems, heating ventilation and air conditioning and related components; and correct use of tools and equipment.

Maintains records of work performed.

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 techniques used in the maintenance and repair of heavy and light equipment.

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:

Diagnose defects in heavy and light equipment.

Use diagnostic tools utilized.

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.

Learn to diagnose malfunctioning mechanical and electrical systems and related sub-systems.

Understand and carry out oral and written instructions.

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

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

Use diagnostic tools utilized in assigned area of responsibility.

Operate a motor vehicle safely.

MINIMUM QUALIFICATIONS

Education:

Possession of a High School Diploma or equivalent GED completion.

Experience

One (1) year of full-time paid experience performing routine maintenance and simple repairs on diesel, gasoline, or alternative fuel powered cars, trucks, buses, construction equipment, or other related vehicles or equipment. A certification of completion or Associates Degree from a recognized vocational, technical, college or university in automotive or heavy equipment technology, or related field may be substituted for the required experience.

Special Requirement(s):

Possession of a valid California Class C Driver's License is required at the time of application and continued maintenance throughout the entire term of employment in this classification.

Within sixty (60) days of appointment must obtain a valid Commercial Instructional Permit.

Within twelve (12) months, must obtain a valid Commercial Class B California Driver's License with required endorsements and without air brake restriction 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.

Within twelve (12) months of appointment, must possess and maintain throughout the entire term of employment in this classification the following three (3) valid certifications 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)

Incumbents must take all 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.

Incumbents must complete the California Office of the State Fire Marshal (OSFM) Training Procedures Manual for Emergency Vehicle Technician (EVT) 1C: Pumps and Accessories within twelve (12) months of appointment.

Failure to complete the EVT 1C course and possess the three (3) ASE certifications listed above within the specified timeframe shall be cause for termination from this classification.

A Fire Equipment Mechanic I may be promoted to a Fire Equipment Mechanic II after a minimum of six (6) months of experience as a Fire Equipment Mechanic I, possession of the required ASE certifications and driver's license, completion of the EVT 1C training course, and upon recommendation of the appointing authority. The total probationary period shall be twelve (12) months. If an employee is hired at the II level, they will be required to serve the twelve (12) month probationary period at that level.

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 heavy work exerting up to 100 pounds of force occasionally with assistance, and/or up to 50 pounds of force frequently, and/or up to 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

TJ: ar: 5/5/14

Revised: TJM:scm: 8/21/15

Revised: TJM:scm:kp: 4/5/17

Revised: SCM:bn 11/15/17

Revised: EVG/C&C: 10/20/2025