



## **Fire Apparatus Technician**

### **Definition:**

Under general supervision, the Fire Apparatus Technician is responsible for performing minor repairs on various gasoline and diesel powered vehicles and equipment as well as fire pumps, small engines and related components. Incumbents in this classification work and receive on-the-job training in the maintenance and repair shop, which includes inspecting, maintaining, and repairing fire apparatus and related equipment. Positions in this classification are characterized by their ability to perform assigned minor maintenance and repair and the ability to work independently with minimal supervision.

The Fire Apparatus Technician is the entry-level in a three level fire equipment maintenance series. This class is distinguished from the next higher classification of the Senior Fire Apparatus Technician in that the latter independently performs mechanic work of inspecting, maintaining, repairing fire apparatus and vehicles as well as performing welding and fabrication, while those in this classification will receive on-the-job training in the full range of mechanic duties. After satisfactory completion of the probationary period of up to 36 months, fire apparatus technicians are expected to qualify for appointment to the next higher class of Senior Fire Apparatus Technician. During the probation period, by the completion of 12 months, employees are expected to be able to perform all inspections and minor repairs and servicing of fire department vehicles; by the completion of 24 months employees are expected to be able to service, fix and repair a fire apparatus; and by the completion of 36 months employees are expected to be able to perform all previous mentioned duties as well as welding and fabrication.

### **Minimum Requirements:**

- Must be at least 18 years of age.
- Provide proof of eligibility to work in the United States.
- Possess and maintain a valid California C Driver's License. Possession of a valid California Commercial Class B Driver License, with all applicable endorsements (i.e. air brake and tanker endorsements), is required within six (6) months of appointment.
- Possession of a California State Fire Mechanic certification, level I or equivalent within two (2) year of employment.
- Obtain and maintain ASE Master Automotive Technician certification within

two (2) years of employment

- Upon hire, must have personal hand tools suitable for the performance of duties.
- Maintain physical ability and stamina to meet position tasks and responsibilities. Physical abilities must commensurate with the essential functions of the position. Reasonable accommodation can be made to enable people with disabilities to perform the described essential functions of the position.

NOTE: The education or experience requirements may be modified or waived at the sole discretion of the Fire Chief. At least one of the education or experience requirements must be met; both requirements cannot be modified or waived. An equivalent combination of education and experience sufficient to successfully perform the essential duties of the job is required.

#### **EDUCATION AND EXPERIENCE:**

- High School Diploma, or General Equivalency Diploma (GED), and two (2) years of apprentice level, light/medium vehicle mechanic experience; or, an equivalent combination of education and experience sufficient to successfully perform the essential duties of the job such as those listed above. Experience must be within the last 6 years.

Or

- Completion of an Auto, Diesel, or Industrial Program from an accredited Automotive Trade School

NOTE: The following are the duties that may be performed by employees in this classification. However, employees may perform other related duties at an equivalent level.

#### **Typical Duties:**

- Assists in performing a variety of diagnostic, servicing, maintenance and repair work involving all mechanical components, parts and accessories, including any overhaul and rebuilding of components, tire mounting and repair, rewiring and installation of specialized equipment.

- Assists in performing annual inspections on fire department vehicles and apparatus, which will include driving the vehicles and apparatus, checking the transmission, engine, and general drivability issues to ensure everything is in proper working condition and up to all safety standards.
- Assists in conducting periodic inspections of vehicles, apparatus and equipment in the fire stations to ensure everything is in compliance with all safety standards; if equipment is not in compliance, then assists in fixing the equipment or reports issue to Senior Fire Apparatus Technician or the Fleet Services Manager.
- Uses a variety of diagnostic equipment to determine sources of problems and to ensure proper adjustment and operation of vehicle and apparatus systems.
- Assists in operating welding and fabrication equipment in making repairs and fabricating parts and tools.
- Assists in road tests and checking vehicles and apparatus for proper operation and for detecting the source of the problems.
- Provides some guidance to agency personnel in basic equipment maintenance tasks and in the proper use and operation of equipment from a maintenance standpoint.
- May assist in providing input on vehicle specifications to the Apparatus Specification committee and on the redesigning of existing equipment.
- Attends training sessions and conferences to keep current with standard mechanic practices.
- Assists in responding to emergency road service calls by assessing, repairing, and/or towing the fire apparatus and/or vehicles as assigned by the Senior Fire Apparatus Technician or the Fire Chief.
- Maintains and repairs shop equipment and cleans shop area.
- Performs other work as needed or directed.

**Ability to:**

- Repair brake systems;
- Repair heavy gas and diesel engines;
- Conduct basic diagnosing, troubleshooting, and performing repairs and preventive maintenance on vehicles;
- Conduct basic repair and replace a variety of vehicle systems, equipment, and/or components;
- Principles of performing on-board diagnostics;
- Conduct basic diagnosing and servicing of transmissions;

- Principals of diagnosing wear and damage to tires;
- Mount and dismount tires;
- Operate applicable tools and equipment of the trade;
- Work independently and understand and carryout verbal and written instructions;
- Understand the basic operation of a computer and other electronic equipment;
- Complete basic record keeping;
- Effectively communicate, maintain interpersonal skills as applied to interaction with coworkers, supervisor, the general public, etc. sufficient to exchange or convey information and to receive work direction.

**Knowledge of:**

- Internal combustion engines;
- Transmission operations;
- Ignition systems;
- Cooling systems;
- Steering geometry;
- Heating and air conditioning systems;
- Exhaust systems;
- Tools and equipment of the trade;
- Brake systems;
- Fuel systems;
- On-board diagnostic methods;
- Principles of gas and diesel engine repair methods;
- Electrical systems and equipment;
- Hydraulic systems.
- Basic computer programs (such as Microsoft Word, Excel and Internet use).
- Fundamentals of technological equipment necessary to be used in the performance of duties.
- Safety practices and procedures observed in the performance of work.

**Desirable Qualifications:**

- ASE Master Medium/Heavy Truck certification
- Possess and maintain CA Air Conditioning Certificate
- Possess and maintain CA Smog Technician Certificate