



FIRE APPARATUS TECHNICIAN

Definition:

Under general supervision, the Fire Apparatus Technician is responsible for performing repairs on various diesel and gasoline 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 maintenance and repair and the ability to work independently with minimal supervision.

The Fire Apparatus Technician is an entry-level position in the fire equipment maintenance series. This class is distinguished from the next higher classification of 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 the Fire Apparatus Technician classification will receive on-the-job training in the full range of mechanic duties. By completion of the 12-month probationary period, employees are expected to perform all inspections and minor repairs and servicing of fire department vehicles. Within 24 months of appointment, employees are expected to be able to service, fix and repair fire apparatus. Within 36 months of employment, employees are expected to perform all previously 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) years of employment.
- Obtain and maintain ASE Medium/Heavy Truck 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 be 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:

Possession of a High School Diploma, or General Equivalency Diploma (GED), and One (1) year full time experience as a heavy-duty truck mechanic or completion of a heavy-duty, diesel, or industrial program from an automotive heavy-duty trade school. Experience must be within the last 4 years.

Desirable Qualifications:

- Dependable, helpful, respectful, honest, hardworking, professional, and a team player.
- Self-motivated and driven to learn by trying and doing on their own rather than waiting for direction.
- Willing to learn new technology, equipment, and apparatus.
- ASE Master Medium/Heavy Truck certification
- Possess and maintain CA Air Conditioning Certificate
- Possess and maintain CA CCDET 1 license
- Possess a DOT brake card.

- Previous experience with fire apparatus in a repair, testing, pumping or operating capacity.
- Experience with diagnosis and repair of complex electrical and computerized motors, transmissions, and other vehicle components.

Work Environment:

Disaster Service Worker:

All Central Fire District of Santa Cruz County employees are designated Disaster Service Workers through state and local law. Employment with the District requires the affirmation of a loyalty oath to this effect. Employees are required to complete all Disaster Service Worker-related training as assigned, and to return to work as ordered in the event of an emergency.

Unforeseen Overtime and Unusual Hours:

Due to the emergency nature of the fire service occasionally employees of the Fire District are required to work extended hours, be called in for overtime hours or have adjustments in their regular schedule to accomplish goals of the District during emergency operations.

Environmental Conditions:

While performing the duties of this job, the employee is frequently exposed to fumes or airborne particles, moving mechanical parts and vibration. The employee is occasionally exposed to a variety of extreme conditions. The noise level in the work environment can be loud.

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:

- Performs 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.

- Performs 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.
- Conducts 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 repairs 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.
- Operates welding and fabrication equipment in making minor repairs and fabricating parts and tools.
- Performs road tests and checking vehicles and apparatus for proper operation and for detecting the source of the problems.
- Provides 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.
- May respond 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.

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.

Ability to:

- Pay attention to Detail: Focusing on the details of work content, work steps, and final work products.
- Handle Stress: Maintaining emotional stability and self-control under pressure, challenge, or adversity.
- Professional Integrity & Ethics: Displaying honesty, adherence to principles, and personal accountability.
- Customer Focus: Attending to the needs and expectations of customers.
- Teamwork: Collaborating with others to achieve shared goals
- Group Facilitation: Enabling constructive and productive group interaction.
- Informing: Proactively obtaining and sharing information
- Reading Comprehension: Understanding and using written information

- Mechanical Insight: Comprehending how mechanical, electrical, and structural systems operate and interact.
- Deliver Results: Meeting organizational goals and customer expectations and making decisions that produce high-quality results by applying technical knowledge, analyzing problems, and calculating risks.
- Safety Focus: Showing vigilance and care in identifying and addressing health risks and safety hazards.
- 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;
- Principles 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.