



FIRE ENGINEER

DEFINITION

Under general supervision, to drive and operate various types of fire apparatus, to operate and maintain fire and emergency equipment; to engage in firefighting and rescue activities in protecting life and property; to set up hoses, ladders, and other equipment in fighting fires; performs fire station, equipment, and apparatus maintenance; and performs related work as required; may oversee a fire station in the absence of a Fire Captain.

SUPERVISION RECEIVED AND EXERCISED

Receives direction from assigned supervisory and management personnel. May exercise direct supervision over lower-level staff on assigned shift in the absence of a Fire Captain.

CLASS CHARACTERISTICS

This is a journey-level class in the fire series that exercises independent judgment and ongoing decision-making responsibilities associated with the work. Incumbents in this classification exercise judgment and initiative, receive only occasional instruction or assistance as new or unusual situations arise and are fully aware of the operating procedures and policies of the work unit.

EXAMPLES OF TYPICAL JOB FUNCTIONS (Illustrative Only)

Management reserves the right to add, modify, change, or rescind the work assignments of different positions and to make reasonable accommodations so qualified employees can perform the essential functions of the job.

- ▶ Responds to fires; performs search and rescue operations to remove persons from burning structures; performs fire suppression techniques as appropriate; lays, connects, charges, and uses supply lines and various water appliances to control and extinguish fires; carries and operates chemical fire extinguishers as required by the nature of the fire; operates fire streams as directed; raises, lowers, and climbs ladders; ventilates roofs and windows; operates fire pumpers; enters burning areas or buildings with hose lines; assists in operating nozzles; makes forcible entry into buildings when necessary.
- ▶ Drives, operates and maintains fire apparatus including pumpers and aerials and performs minor maintenance and repairs on equipment.
- ▶ Selects the most direct route to fires and other emergencies.
- ▶ Locates fire apparatus in the proper place at emergency scenes for most efficient operation.
- ▶ Responds to fire alarms, delivers all equipment, and implements fire suppression and firefighting techniques to rescue victims and protect private and public property.
- ▶ Provides support to community members. Actively serves on an on-call basis to respond to community concerns. Assists community members with performing fire prevention tasks as time allows.
- ▶ Provides support to the city's police force. Provides additional coverage for crowd control or facilities

maintenance duties as needed.

- ▶ Performs ventilation procedures and salvage operations to minimize property damage by moving and/or covering furnishings, sweeping water, and removing debris and smoke.
- ▶ Performs triage, primary, and secondary assessments; responds to emergency medical calls and administers first aid and/or basic life support as appropriate, including assessing patients, cardiopulmonary resuscitation (CPR), rescue breathing, administration of oxygen, recording vital signs, and other related medical treatments within the scope and authority of licensure.
- ▶ Studies Fire Department rules and regulations; performs all necessary training activities as assigned and in accordance with readiness and preparation for firefighting activities, including training in fire suppression, emergency medical training, hazardous materials, equipment use and maintenance, fire drills, and other related functions.
- ▶ Cleans, washes, and services firefighting vehicles and equipment; inspects, tests, and maintains equipment and pump motors including nozzles, appliances, fittings, hydrants, fire extinguishers, hand and power tools, generators, rescue and first aid, and related equipment.
- ▶ Drives and maintains fire trucks and other emergency vehicles including the grass rig and tanker; operates engine pumping equipment and apparatus.
- ▶ Assists in the maintenance of clean and orderly conditions in and about the fire station.
- ▶ Performs special assignments including maintenance of resuscitation equipment, public education, upkeep of department library, and maintenance of nozzles, appliances, and fittings.
- ▶ Participates in fire investigation activities; identifies, collects, and preserves evidence at fire scene.
- ▶ Participates in a variety of public awareness activities to promote good public relations and fire safety awareness, including providing demonstrations to the public.
- ▶ Responds to hazardous materials emergencies, including scene assessment, identifying the extent of damage and/or potential hazards to the community, implementing containment plans, and protecting fire personnel and civilians from exposure to chemicals.
- ▶ Performs a variety of administrative duties including maintaining proper records and documentation on all job-related activities, functions, apparatus, and equipment.
- ▶ Performs other duties as assigned.

QUALIFICATIONS

Knowledge of:

- ▶ Principles, practices, procedures, techniques, and equipment used in fire, medical, and hazardous materials emergency response, including containment and clean-up; technical and confined response situations.
- ▶ Local street system, location of hydrants, the layout and location of public utilities, potentially hazardous materials, and emergency treatment facilities.
- ▶ Principles, practices, and technical aspects of fire science, hydraulics, and water flow capacity as applied to fire suppression.
- ▶ Purposes and uses of a variety of vehicles, equipment, and apparatus used in firefighting, rescue, and medical assistance operations.
- ▶ Applicable Federal, State, and local laws, regulatory codes, ordinances, and procedures relevant to assigned area of responsibility.
- ▶ Techniques of First Aid, CPR, and emergency medical response.
- ▶ Practices and techniques of hazardous materials response, containment, and clean-up.
- ▶ Incident command systems and principles.
- ▶ Mathematical principles.
- ▶ Principles and practices of work safety.
- ▶ Techniques for providing a high level of customer service by effectively dealing with the public, vendors, contractors, and City staff.

- ▶ The structure and content of the English language, including the meaning and spelling of words, rules of composition, and grammar.
- ▶ Modern equipment and communication tools used for business functions and program, project, and task coordination, including computers and software programs relevant to work performed.

Ability to:

- ▶ Operate pumps, hoses, hydrants, compressors, and a variety of hydraulic and electronic equipment.
- ▶ Apply the mechanics of firefighting and emergency medical care.
- ▶ Apply the principles, practices, and procedures of modern firefighting and protection of life and property.
- ▶ Administer first aid and CPR.
- ▶ Drive and operate fire vehicles including the engine, grass rig, and tanker.
- ▶ Remain calm while working in extremely stressful situations that may present a threat to life and property.
- ▶ Work within a command structure requiring strict adherence to the following of orders.
- ▶ Identify safety hazards and work safely without presenting a direct threat to self or others.
- ▶ Understand and act in accordance with departmental policies, rules, instructions and written material in the field of firefighting.
- ▶ Analyze situations and adopt effective courses of action.
- ▶ Think and act quickly and effectively in emergencies.
- ▶ Understand, interpret, and apply all pertinent laws, codes, regulations, policies and procedures, and standards relevant to work performed.
- ▶ Effectively represent the department and the City in meetings with governmental agencies, community groups, various business and professional organizations, and in meetings with individuals.
- ▶ Understand the organization and operation of the City and of outside agencies as necessary to assume assigned responsibilities.
- ▶ Independently organize work, set priorities, meet critical deadlines, and follow-up on assignments.
- ▶ Use tact, initiative, prudence, and independent judgment within general policy, procedural, and legal guidelines.
- ▶ Effectively use computer systems, software applications relevant to work performed, and modern business equipment to perform a variety of work tasks.
- ▶ Communicate clearly and concisely, both orally and in writing, using appropriate English grammar and syntax.
- ▶ Establish, maintain, and foster positive and effective working relationships with those contacted in the course of work.

Education and Experience:

Any combination of training and experience that would provide the required knowledge, skills, and abilities is qualifying. A typical way to obtain the required qualifications would be:

Education:

- ▶ Equivalent to completion of the twelfth (12th) grade.

Experience:

- ▶ One (1) year of experience performing duties similar to a Firefighter with the City of Angels.

Licenses and Certifications:

- ▶ Possession of a valid Class B California Driver's License or Class C with firefighter endorsement, to be maintained throughout employment.
- ▶ Possession of a valid California State Fire Marshal (CSFM) Driver/Operator I certificate or equivalent, to be maintained throughout employment.
- ▶ Possession of a valid EMT I or EMT FS Certificate, to be maintained throughout employment.
- ▶ Possession of a valid Hazmat F.R.O. Certificate, to be maintained throughout employment.

PHYSICAL DEMANDS

For fire suppression work, must have the ability to quickly respond to changing emergency conditions and to rapidly don personal protective equipment including self-contained breathing apparatus; mobility, physical strength, and stamina to carry and operate fire hoses and related fire-fighting equipment; to operate hand and power tools to enter buildings; to climb fire ladders to access higher levels in buildings; and to assist and/or lift/carry victims for long distances under strenuous and hazardous conditions. Incumbents will be required to work in small, cramped crawl spaces, areas where vision is limited, and/or at heights including roof tops and on ladders; vision to operate vehicles at a high rate of speed in all weather conditions, and hearing and speech to communicate in person, before groups, and over the telephone or radio. The job involves fieldwork requiring frequent walking on uneven terrain and climbing and descending structures to access fire scenes and to identify problems or hazards. Positions in this classification frequently bend, stoop, kneel, reach, and climb to perform duties; incumbents must meet the physical/mental standards as set forth by the City's physical and other mandated testing and assessment programs.

Positions also work in a station environment, and use standard office equipment, including a computer.

ENVIRONMENTAL ELEMENTS

Employees work in outdoor conditions, and are exposed to unsuppressed fire conditions, moving vehicle accident scenes, loud noise levels, cold and hot temperatures, inclement weather conditions, moving vehicles, and smoke, hazardous or toxic physical substances and fumes. Employees also work in an office or station environment with moderate noise levels, controlled temperature conditions, and no direct exposure to hazardous physical substances. Employees may interact with upset staff and/or public and private representatives in interpreting and enforcing departmental policies and procedures.

WORKING CONDITIONS

May be required to be on-call and to work various shifts or emergencies on evenings, weekends, and holidays.