



## Job Description

Job Title: Fire Engineer		Date Created: 02/2020
Department: Fire		Date Revised: 04/2021
Job Code: 19.4591	Bargaining Unit: IAFF	FLSA: Non-Exempt

**Summary of Duties:** Under supervision, responds to both emergency and non-emergency calls for service including fire, rescue, medical, and/or hazardous materials emergencies; operates and maintains a variety of fire apparatus and equipment; participates in both emergency and non-emergency activities, fire prevention activities, public education programs, training, and water distribution system testing and maintenance; performs (minor) mechanical maintenance and repair of vehicles, equipment and department facilities; performs other related duties as assigned.

**Distinguishing Characteristics:** Receives direct supervision from assigned Fire Captain; receives administrative supervision from assigned Battalion Chief, Fire Deputy Chief and/or the Fire Chief, and mechanical maintenance supervision from department vehicle mechanics and program managers.

### **EXAMPLES OF ESSENTIAL JOB FUNCTIONS**

1. Those of a Salinas City Firefighter, including response to emergency and non-emergency alarms for the protection of life, property, and environment: ensures operational readiness of assigned apparatus and equipment at all times.
2. Assists in the selection of the travel route to calls for service; drives and operates all types of fire apparatus and emergency/non-emergency fire department vehicles as assigned.
3. Positions assigned apparatus at emergency incidents to achieve maximum operational effectiveness.
4. Calculates appropriate and effective pump and nozzle pressures for operation of hose streams, notifies the Company Officer or Officer in Charge of significant changes in water supply during an emergency incident; calculates hydraulic solutions as required; assists in all phases of emergency operations as directed.
5. Inspects vehicles and associated equipment, including aerial and pumping apparatus; performs maintenance and minor repairs on fire apparatus and associated equipment; identifies and assists with repair and maintenance of fire vehicles and equipment; maintains records of maintenance and equipment; assists fire department mechanics with maintenance, repairs, lubrication and other mechanical activities as directed. Enters vehicle/equipment inspection and maintenance data into electronic database system(s) as required.
6. Performs annual fire hydrant testing and maintenance activities, fire hydrant flow tests, and drafting operations; ensures return of equipment to its appropriate or assigned location after use or repair.
7. Assists in the maintenance of fire station facilities; conducts life and fire safety inspections of buildings and occupancies within the City as directed.
8. Participates and assists in training activities and academies as directed; conducts and participates in fire department demonstrations as directed; prepares and maintains records and reports as required.
9. Communicates, supports, carries out and maintains all City and Fire Department policies, procedures and standards, and informs others of any authorized changes.
10. Establishes and maintains cooperative work relationships with other City employees and the general public.
11. Contributes to a safe working environment and informs supervisor of actual or potential unsafe conditions or actions.
12. Attends special schools, conferences and/or seminars as required or assigned.
13. Acts as Firefighter or Fire Captain when assigned by superior officer.
14. Maintains required proficiency and competency in all mandated training; maintains awareness of current developments and trends of modern fire apparatus and equipment.

15. Maintains a level of health and fitness consistent with Fire Department standards.
16. Performs other related work as assigned.

**Minimum Qualifications:**

**Knowledge of:**

- Federal, state, and local laws and statutes related to emergency vehicle operation.
- Firefighter duties.
- Principles, practices and procedures of modern firefighting in the protection of life, property, and environment.
- General hydraulic theory and calculation,
- Operation and maintenance of the types of fire apparatus and equipment used by the fire department.
- Fire department operational and administrative policies and procedures.
- The geographic layout of City streets and water system.
- Mathematics and the principles of hydraulics as applied in the fire service.
- Major hazards within the City.

**Ability to:**

- Perform all aspects of the Firefighter job duties.
- Drive fire apparatus with care and safety in accordance with traffic laws, ordinances and pertinent. City and Fire Department policies and procedures.
- Work effectively and cooperatively with others.
- Analyze situations quickly to achieve logically-sound conclusions.
- Operate all firefighting apparatus and equipment.
- Interpret and carry out verbal and written directives.

**Education:**

1. High school diploma or GED.
2. Completion of California State Board of Fire Services Firefighter I, Firefighter II, and Fire Apparatus Driver Operator 1A and 1B.
3. Candidate must complete the requirements for California State Board of Fire Services Driver/Operator Certification within fifteen (15) months of promotion date to maintain promotion to Fire Engineer.

**Experience:**

- Three years' experience as a Firefighter with the Salinas Fire Department.
- Successful completion of probationary period with City of Salinas.

**Licenses and Certifications:** Must possess and maintain a valid California Driver License – Class “A”, Class “B” or Class “C” with a Firefighter Endorsement; must maintain an EMT-1 and CPR/AED Certification as a condition of continued employment.

**Physical Demands and Working Conditions:** Physical mobility to sit, stand, walk, crawl, kneel, crouch, squat, lay on back or stomach, climb and balance, reach at shoulder height and above, push, pull, twist and rotate for extended periods during each twenty-four hour shift; stamina to run, walk, and stand wearing protective equipment weighing up to 100 pounds for extended periods of time; physical agility to walk and run over uneven, wet surfaces, climb ladders of up to 100 feet in height; push/pull, squat, twist, turn, bend, stoop, climb and reach overhead; no severe allergic reactions to dust, pollens, or poison oak; physical strength to lift and carry up to 75 pounds and occasionally to drag persons weighing more than 165 pounds, and heavier persons with assistance, while carrying fifty pounds or more of equipment attached to the body; physical strength to lift up to 75 pounds on a frequent basis, and to pull, drag and extend a charged fire hose and 75-pound ladders; manual dexterity of neck, wrists, waist, hands and fingers sufficient to manipulate small tools, wear respirators and other protective equipment, to climb through small confined spaces, use hand and power tools, handling and grasping equipment and/or debris, and to administer first aid; hearing and speaking ability sufficient to converse over the telephone, two-way radio and in person over high ambient background noise levels; ability to detect and describe noises in machinery or to hear running water; uncorrected vision of 20/40 or better in one eye and 20/100 in the other, or corrected to

20/20 in one eye and 20/40 in the other; ability to distinguish colors to recognize flame, smoke, hazardous materials placards and skin signs; mental acuity to act under stress in life threatening situations, and to maintain calm efficient judgment in serious situations involving quick action or mental stress.

A Fire Engineer is required to drive emergency vehicles in potentially dangerous situations in and out of traffic, and to work in an equipment maintenance shop environment repairing and performing maintenance on City fire apparatus and associated equipment. Occasionally, when performing the duties of fire fighter, may be required to wear protective clothing and/or equipment, carry appropriate tools, and wear self-contained breathing apparatus weighing a combined total of 100 pounds while performing emergency-related activities. Fire Engineers work in a variety of very hot and cold temperatures, often outdoors and in a wet environment. The Fire Engineer must be able to respond physically to alarms and/or calls for assistance and be fully alert and able to move and act quickly from a standstill or sleep. May occasionally be required to lift and carry briefly using only stomach and/or back muscles. Must be able to hear and differentiate a variety of warning devices and alarms, including traffic and emergency vehicles, traffic signals, gas leaks and/or calls for assistance. Occasionally requires precise arm-hand positioning movements such as when operating certain tools, floor jacks, chain saws, or emergency medical equipment. Such equipment often requires the coordinated movement of more than one limb simultaneously. Some emergency situations and repair tasks may require work to be performed in small cramped crawl spaces, areas where vision is limited, and/or extended heights including roof tops and ladders. Assigned work environments may involve slippery or wet conditions, maneuvering on beams and other structural building components, hillsides, and fences.

The above statements are intended to describe the general nature and level of work being performed and are not intended to be an exhaustive list of all responsibilities, duties and skills which may be required.