

## CITY OF SALINAS

## FIRE ENGINEER

### **BARGAINING UNIT/CLASS CODE:**

**IAFF/O14**

### **DEFINITION**

Under supervision responds to calls for fire, rescue, medical and/or hazardous materials emergencies; operates and maintains a variety of fire apparatus and firefighting equipment; participate in firefighting activities, fire prevention inspections, public education programs, training programs, and hydrant maintenance; performs (minor) mechanical maintenance on vehicles, equipment and apparatus and department facilities.

### **SUPERVISION RECEIVED AND EXERCISED**

Receives direct supervision from assigned Fire Captain; administrative supervision from assigned Battalion Chief, Fire Deputy Chief and the Fire Chief and mechanical maintenance supervision from department vehicle mechanics and program managers.

### **ESSENTIAL JOB FUNCTIONS OF THE POSITION** Duties may include, but are not limited to the following:

Those of a Salinas City Firefighter, and response to emergency and non-emergency alarms for the protection of life and property. Assists in the selection of the route to drive to the emergency scene. Drives and operates all types of fire apparatus and emergency/non-emergency vehicles of the Fire Department. Inspects vehicles, equipment, and apparatus, including aerial lift and pumping equipment; perform maintenance and minor repair work; identify and assist in major repair and maintenance; maintain records of maintenance and overhauls. Assists fire department mechanics with maintenance, overhauls, lubrication and other mechanical activities as directed. Positions fire apparatus at alarms for the most effective and efficient operations. Performs annual fire hydrant maintenance activities, fire hydrant flow tests, drafting operations, calculates engine pressures and nozzle pressures for operation of hose streams, positions engines and aerial apparatus in most effective positions at scenes of fire, notifies the company officer or officer in charge of significant changes in water supply system during a fire; calculates hydraulic problems that may be confronted. Maintenance, recordkeeping, minor repair, cleanliness and adjustment of firefighting vehicles and equipment. Ensure readiness condition of apparatus and equipment at all times. Responsible for the return of equipment to its rightful place after use or repair. Assists in the maintenance of clean and orderly conditions in and about a fire station. Assists in all phases of emergency operations as directed. Conducts Life and Fire Safety Inspections of buildings and occupancies within the City as directed. Participates and assists in training activities and academies. Conducts and participates in Fire Department demonstrations as directed. Prepares and maintains records and reports as required. Communicates, supports, carries out and maintains all City and Fire Department policies, procedures and standards, and informs others of any authorized changes. Establish and maintain cooperative work relationships with other City employees, the general public and other members of the Fire Department. Contribute to a safe working environment in the Fire Department. Attends special schools, conferences and/or seminars as required by the Fire Department. Acts as Firefighter or Fire Captain when assigned by superior officer. Maintains required proficiency and competency in all mandated training. Keeps informed of the latest developments and trends of modern fire apparatus and equipment. Maintains a level of health and fitness consistent with Fire Department standards. Performs other related work as assigned.

### **PHYSICAL AND MENTAL CHARACTERISTICS**

Physical mobility to sit, stand, walk, crawl, kneel, crouch, squat, lay on back or stomach, climb and balance, reach at shoulder length and above shoulder length, push, pull, twist and rotate for periods of between five minutes to two and one-half hours per twenty-four hour shift. Stamina to run, walk, and stand wearing protective equipment weighing up to 100 pounds, for periods of time ranging from 5 minutes to two and one-half hours. Physical agility to walk and run over uneven, wet surfaces, occasionally 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 or pollen. Physical strength to lift, carry and install heavy pieces of machinery weighing up to 75 pounds, and occasionally to drag persons weighing more than 165 pounds for transport to triage, and up to 300 pounds with assistance, while carrying fifty pounds 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 two and one half-inch 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 gear, 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 often over the noise of machinery and traffic and sirens, to detect and describe noises in machinery or to hear running

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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.

**WORKING CONDITIONS**

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. Occasionally, when performing the duties of fire fighter, may be asked to wear protective gear, carry appropriate tools, and wear self-contained breathing apparatus, weighing a combined total of 100 pounds, while performing many of the emergency-related duties. Fire Engineers work in a variety of very hot and very cold temperatures, and often outdoors and in a wet environment. The Fire Engineer must be able to respond physically to alarms and/or calls for help, and be in a full sprint and in an alert, active state from a standstill or sleep, in a matter of seconds. Occasionally, while performing emergency aid, and while repairing vehicles, a Fire Engineer may lift and carry victims and move equipment requiring the use of stomach and back muscles. It is required that they be able to hear a variety of warning devices and alarms, oncoming traffic and approaching emergency vehicles, traffic signals, gas leaks or calls for help. Tools used by a Fire Engineer require precise arm-hand positioning movements such as when operating a mechanics tools, floor jacks, chain saw, or using emergency medical equipment. The operation of said equipment often requires the coordinated movement of more than limb simultaneously. Emergency situations and apparatus repair may require work to be performed in small cramped crawl spaces, areas where vision is limited, and/or heights including roof-tops and ladders. Balance is required working in slippery wet conditions, maneuvering on beams and other structural parts of building, hillsides, and fences.

**QUALIFICATIONS**

**Knowledge of:**

The Firefighter job related duties, and the principles, practices and procedures of modern firefighting and the protection of life and property. The operation and maintenance of the types of fire apparatus and equipment used in the Fire Department. The geographic layout of the City. The City water system. Mathematics. Major fire hazards within the City. The principles of hydraulics as applied in the fire service.

**Ability to:**

Perform all aspects of the Firefighter job duties, and 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 correctly and to reason logically. Operate all firefighting apparatus and equipment. Interpret and carry out verbal and written orders.

**License and Certificate:**

Must possess and maintain a valid Class-B California Driver's License. Must maintain EMT-1 and CPR Certification as a condition of continued employment.

**Education and Experience:**

An example of the education and experience which demonstrates the knowledge, skills and abilities required to perform the duties would be a high school diploma or GED and two years experience of full-time experience as a Firefighter with the Salinas Fire Department. Must show proof of completion of California State Board of Fire Services Firefighter I and Firefighter II and Fire Apparatus Driver Operator 1A and 1B. **Must possess California State Board of Fire Services Driver/Operator Certification within eighteen (18) months of promotion date to maintain promotion to Fire Engineer.**

Reviewed \_\_\_\_\_  
Department Director

Approved \_\_\_\_\_  
Human Resources Officer

Approval Date \_\_\_\_\_