



Fire Engineer

Summary

Operate all fire apparatus and equipment; transport crews to the emergency scene; respond to fires, medical emergencies and other emergency and non-emergency situations, and take appropriate action to protect life and property; perform various staff support assignments in addition to normal emergency response activities.

Class Characteristics

General direction is provided by a company officer; responsibilities may include indirect supervision of support staff.

Essential Duties, Skills, and Demands of the Position

The duties, skills, and demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with a disability to perform the essential duties, skills, and demands.

Duties:

Drive fire apparatus to the scene of an emergency, locate apparatus, and place it in operation as directed by fire supervisory staff.

Operate engines by laying hose, calculate and monitor hydraulic conditions, direct engine hook-up and set up, and adjust controls to ensure proper water flow. Operate aerial ladder truck, by stabilizing truck, and maneuvering, extending, and retracting ladder.

Provide medical emergency response including initial patient and situation assessment.

Operate various auxiliary equipment such as lights and power during night-time emergency response. Set up ladder mount and other water monitors. Use hand and power tools to obtain entry to buildings, free trapped accident victims, shut off utilities, and provide ventilation.

Clean, service, and ensure operational readiness of vehicles, apparatus, hoses and equipment; trouble shoot equipment as required.

Participate in specialized rescue operations such as aerial and confined space situations, including the use of rigging and shoring.

Participate in clean-up, salvage, and overhaul operations; clean, service, and ensure operational readiness of fire vehicles, apparatus, hoses and equipment; assist with the maintenance of station and facility.

Participate in various staff support assignments including but not limited to: fire prevention, inspection of commercial and residential property, training and skills improvement, maintenance of inventory records, scheduled inspection of department equipment and training.

Contain, control, and decontaminate hazardous materials spills.

Work with the community in a variety of educational, public relations and service programs; may provide CPR training classes as assigned.

May act and perform the duties of a Fire Captain during the absence of a company officer.

Perform all duties of a Firefighter.

Perform related duties as assigned.

Skills/Abilities:

Drive and operate fire apparatus in a safe manner.

Maintain and operate such apparatus in the most effective and efficient manner; remain calm, make sound decisions, and respond appropriately in emergencies.

Render emergency medical care at the basic life-support level.

Maintain accurate records and prepare clear and concise reports and other written materials using a computer.

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Remain calm, make sound decisions, and respond appropriately in emergency situations.

Communicate effectively both verbally and in writing.

Establish and maintain effective working relationships with those contacted in the course of the work.

Physical Demands and Work Environment:

While performing the duties of this job, the employee is regularly required to sit; use hands to finger, handle, or feel; reach with hands and arms; and talk or hear. The employee frequently is required to walk occasionally require to stand, climb or balance, stoop, kneel, crouch, or crawl, and taste or smell. The employee must occasionally lift weight in excess of over 150 pounds. Specific vision abilities required by this job include close vision, distance vision, color vision, peripheral vision, depth perception, and ability to adjust focus. While performing the duties of this job, the employee is regularly exposed to outside weather conditions. The employee is occasionally exposed to high, precarious places, fumes or airborne particles; toxic or caustic chemicals; explosives; and vibration. The noise level in the work environment is usually loud.

Qualifications

Knowledge of:

Principles, practices, techniques, and apparatus required for fire prevention and suppression.

Principles and techniques of fire apparatus hydraulics.

Principles and practices of providing emergency medical care at the basic life support level.

Operation and maintenance practices and methods for a variety of fire apparatus and equipment.

Applicable local, state and federal laws, codes, ordinances and regulations.

Safety practices and precautions pertaining to the work.

Geographical layout of the City and location of various fire suppression utilities.

Basic principles and practices of fire suppression and prevention.

Education and Experience

Any combination equivalent to the education and experience likely to provide the required knowledge and abilities would be qualifying. A typical way to gain such knowledge and abilities would be:

Education:

Equivalent to graduation from high school. Some college level fire science coursework is desirable.

Experience:

Two years of experience as a Firefighter and/or Firefighter/Paramedic. Some college level fire science coursework and previous fire fighting experience in a volunteer or paid capacity is required.

Certifications/Licenses:

Must possess a valid California Class C driver license or higher with a Firefighter Endorsement at the time of application.

Must possess current certification as a Firefighter I.

Must pass and maintain physical requirements as specified by the City and be able to wear self-contained breathing apparatus.

Must be willing to work shifts as structured in the Fire Department.

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