

## **FIRE ENGINEER**

### **PURPOSE**

Performs advanced firefighting and rescue activities; operates and maintains the entire range of Fire Department vehicles, apparatus, equipment & facilities. Performs related work and other duties as required.

### **WORKING CONDITIONS**

Work is conducted in a fire station and in the field in various settings. Some of these include exposure to smoke, odors, fumes, dust, as well as periodic exposure to dangerous and life-threatening situations. Work involves irregular hours on weekdays, weekends and holidays.

### **PHYSICAL DEMANDS**

Performs tasks requiring: strength and stamina, such as lifting and moving equipment and objects weighing up to 100 pounds; pushing or pulling objects of up to 100 pounds; sitting, standing, walking on uneven or slippery surfaces, kneeling, bending, twisting, turning, stooping, squatting, grasping and crawling; ascending and descending stairs and ladders; work both inside and outside with exposure to extreme weather conditions, odors, dust and pollen; exposure to chemicals, skin irritants, fumes and solvents; frequent hand and arm motion; hand and finger dexterity sufficient to use small tools; turning and bending neck; the ability to see well enough to read gauges, documents and street maps; accurate depth perception; the ability to communicate verbally, including projecting a voice that can be heard in a noisy environment; the ability to hear and distinguish various sounds, such as alarms, voices of co-workers and warning horns or sirens in both quiet and noisy environments; the ability to stand, walk, bend and reach at, above or below shoulder height for extended periods of time; sustained concentration and prolonged commitment to job tasks; interpersonal skills sufficient to work closely with others on a team; high level cognitive, interpretive or judgment skills; ability to demonstrate flexibility in work environments, performing a variety of frequently changing tasks; ability to plan, negotiate, direct, control and monitor other's activities; and the ability to work alone effectively under stress in situations dangerous to self or others.

### **DISTINGUISHING CHARACTERISTICS**

The Fire Engineer must be a skilled driver, capable of driving large fire apparatus under normal traffic conditions, as well as when responding Code Three to emergency incidents. Fire Engineer must be familiar with the traffic laws and regulations of the State of California, as well as all driving rules and operational procedures of the City of Dixon Fire Department.

**ESSENTIAL JOB FUNCTIONS** – Duties may include, but are not limited to, the following:

Responds to fires, emergency rescue, first aid, fire alarms, natural and manmade disasters, and public assist service calls.

Operates pumps, and all apparatus to effectively suppress fires, determining the best location for apparatus; connects and lays hose lines and determines the correct operating pressures and water flows. This person may take charge and lead the work of an apparatus and its crew.

Assists in holding nozzles to direct streams of water, carries and operates various fire extinguishers and other firefighting appliances.

Raises, lowers, and climbs various ladders; makes forcible entry into buildings when necessary, ventilates buildings and searches for victims.

Assists with the overhaul, salvage, and cleanup operations at any incident.

Deliver EMS care on incidents as an EMT in accordance with Solano County EMS protocols.

Makes every reasonable effort to continually improve the manner in which the job is performed and to deliver the highest quality of service to the public.

May supervise subordinate personnel in the absence of the Fire Captain.

### **OTHER JOB FUNCTIONS**

Assists in the development, planning, and scheduling of the apparatus and equipment maintenance program. Cleans, services, inspects, tests and repairs equipment and apparatus to maintain peak operational condition.

Assists in the maintenance of clean and orderly conditions in and around the fire station.

Assigns tasks, reviews work, provides training, and gives directions to less experienced firefighters.

Studies and trains on Fire Department rules and regulations, fire hazards, firefighting techniques and other related emergency subjects. Participates and assists in the administration of on-going training and fire prevention programs, attends drills, meetings and conferences.

Conducts thorough inspections of buildings, facilities, and properties for compliance with State and local fire and building codes.

Answers general questions from the public, assists with public education.

Prepares and updates reports, logs, maps, and other departmental records.

Assists the shift Fire Captain and Chief Officers as needed.

### **DESIRABLE QUALIFICATIONS**

#### **Knowledge & Abilities:**

Proficient knowledge in the operation and maintenance of firefighting apparatus and their equipment; be familiar with fireground hydraulics and principles of fire streams and modern fire prevention techniques.

Ability to understand and act in accordance with department policies and rules; to demonstrate a high degree of mechanical aptitude as required in the operation and maintenance of firefighting and rescue equipment; to drive fire and rescue vehicles with care and safety in accordance with traffic laws and ordinances; to analyze situations and adopt effective courses of action.

Ability to think and act quickly and effectively in emergencies; administer EMS care within their scope of practice; to direct the activities of firefighting personnel; to work effectively without immediate supervision; to assist with fire prevention and inspection activities, and to assist with on-going training programs; to effectively plan, schedule and carry out the equipment maintenance program. Ability to keep simple records and prepare reports, to understand and carry out oral and written instructions; to establish and maintain cooperative and effective relationships with those contacted in the course of work; and to meet the physical requirements established by the department.

**EDUCATION/EXPERIENCE:**

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

**Education:**

Equivalent to completion of the 12th grade. Related college level training is desirable.

**Experience:**

Two years full-time paid experience in firefighting.

**Licenses, Certificates and/or Other Requirements**

Must possess and maintain a Firefighter Class C Endorsement (or higher), and a satisfactory driving record are conditions of initial and continued employment.

A valid California EMT-B (minimum). A engineer may serve as a paramedic and in order to do so must meet the requirements of the Dixon Fire Department and the Solano County EMS.

A valid CPR certificate.

Completion of ICS 100/200 & NIMS 700/800.

Completion of California Fire Training & Education System, Firefighter 1 & 2.

Completion of California Fire Training & Education System, Driver/Operator 1A & 1B.