



## JOB DESCRIPTION

### Fire Engineer

Date Prepared: March 2014

Class Code: 5040

**SUMMARY:** Under basic supervision, performs specialized firefighting, rescue, and emergency medical duties as required to protect the lives and property of the City residents and businesses; responds to calls for service, operates and maintains VFD vehicles, and maintains Vernon Fire Department (VFD) equipment and facilities.

**ESSENTIAL FUNCTIONS:** -- *Essential functions, as defined under the Americans with Disabilities Act, may include any of the following representative duties, knowledge, and skills. This is not a comprehensive listing of all functions and duties performed by incumbents of this class; employees may be assigned duties which are not listed below; reasonable accommodations will be made as required. The job description does not constitute an employment agreement and is subject to change at any time by the employer. Essential duties and responsibilities may include, but are not limited to, the following:*

- Operates and drives fire apparatus and equipment to and from emergency response scenes; inspects and maintains VFD vehicles and apparatus, and assures that all emergency response equipment is in a state of readiness and available for immediate use; notifies supervisors of equipment operational problems beyond the scope of authority or skills; duties may vary according to job assignment.
- Responds to emergency alarms and calls for service; operates fire pumps, and establishes operations post on-scene; mitigates hazards, and performs fire suppression, rescue, and emergency medical duties as required to control emergency incidents; follows orders under stressful conditions, and relays orders, instructions, and information on team actions.
- Operates and drives VFD vehicles and equipment to and from emergency response scenes.
- Operates emergency, fire, rescue, medical, and lifesaving tools and equipment; assists and coordinates with law enforcement personnel and other emergency responders; extracts victims from accident sites and hazardous situations; enters burning buildings to extinguish fires and rescue victims.
- Preserves property and mitigates hazards, emergency situations, and hazardous materials incidents; performs salvage and clean-up activities at fire and emergency scenes.
- Inspects and maintains personal protective equipment, and VFD facilities, vehicles, equipment, apparatus, tools, medical inventory, hydrants, and infrastructure; inspects, tests, evaluates, and repairs equipment after use; performs minor repairs on apparatus, equipment and facilities; notifies supervisors of maintenance problems beyond the scope of authority or skills; orders replacement supplies as needed.
- Studies City geography, traffic patterns, streets, landmarks, building locations, and special hazards of designated facilities, in order to perform duties in a fast and effective manner.
- Prepares and maintains departmental records and reports; assists with inspection of buildings, developing fire pre-plans, and verifying compliance with fire prevention ordinances.
- Conducts public education sessions for a wide variety of audiences; participates in fire prevention, pre-fire planning and safety programs; assists with training of citizens and volunteer staff as assigned.
- Attends training programs to continuously update work skills and knowledge.
- Supports the relationship between the City of Vernon and the general public by demonstrating courteous and cooperative behavior when interacting with visitors and City staff; maintains confidentiality of work-related issues and City information; performs other duties as required or assigned.

## **MINIMUM QUALIFICATIONS:**

### **Education, Training and Experience Guidelines:**

High School Diploma or GED equivalent; AND two years of experience as a full time Firefighter, preferably with the City of Vernon. Must have completed 15 College Units leading to an A.A. or A.S. Degree in Fire Science or closely related field; 9 of required units must be in Fire Science. Must have completed California State Fire Marshal Driver Operator 1A and 1B.

### **Knowledge of:**

- City and VFD policies and procedures.
- State and federal regulations, practices, and procedures governing fire safety and emergency services.
- Principles of hydraulics and techniques for fire apparatus hydraulics applied to fire suppression.
- Methods, practices and procedures for fire prevention, fire suppression, hazardous material responses, emergency medical services, rescue operations, and fire investigations.
- Procedures and equipment used in modern firefighting and emergency medical response.
- Operational characteristics of fire suppression apparatus and equipment.
- City geography, traffic patterns, and the location of all streets, landmarks, buildings, and water mains.

### **Skill in:**

- Driving and operating all VFD fire vehicles and apparatus.
- Remaining alert at all times, and reacting quickly and calmly in emergency situations.
- Providing firefighting, rescue, and medical services under emergency conditions.
- Calculating and monitoring hydraulic conditions at emergency scenes.
- Following orders under stressful conditions, and following safe firefighting practices.
- Recognizing the construction, contents, and occupancy of buildings in order to apply appropriate firefighting techniques.
- Assessing emergency medical needs, stabilizing patient, and providing emergency medical care.
- Operating and maintaining fire suppression apparatus, tools, and equipment.
- Maintaining and repairing firefighting vehicles, facilities, and equipment.
- Operating and maintaining specialized computer and communications equipment.
- Establishing and maintaining cooperative working relationships with co-workers.
- Working as a team member with other emergency services agencies.
- Communicating effectively verbally and in writing.

## **LICENSE AND CERTIFICATION REQUIREMENTS:**

A valid California State Class C Driver's License with Firefighter Endorsement or Commercial Driver's License is required. Certification for Firefighter I and II and Emergency Medical Technician from appropriate California agency are required. Completion of the VFD Engineering Certification program is required. Additional technical training and certifications are preferred and may be required.

## **PHYSICAL DEMANDS AND WORKING ENVIRONMENT:**

Work is performed in a fire department facility, and in the field for on-scene response to emergency situations. Work requires wearing of specialized gear and Self Contained Breathing Apparatus for extended periods of time, and climbing, lifting, carrying, and transporting equipment and individuals weighing up to 200 pounds. Functional vision and normal hearing to differentiate sounds (voice, horn) are required. Work may involve exposure to extreme weather conditions, extreme heat, unstable structures, hazardous materials, emergency situations, body fluids, infectious diseases, and pathogens. Must maintain a level of physical fitness to meet VFD standards.