

CITY OF MILPITAS  
Revised: Sept 2010  
Revised: Jan 2015  
EEOC: Protective  
Services  
FLSA: Non-Exempt  
UNIT: IAFF  
Physical: 3

## **FIRE ENGINEER**

### **DEFINITION**

To operate and maintain a variety of fire apparatus and firefighting equipment, to participate in firefighting activities, fire prevention inspections and training, to perform mechanical maintenance on vehicles, equipment, and apparatus.

### **SUPERVISION RECEIVED AND EXERCISED**

Receives general supervision from a Fire Captain.

Exercises technical supervision over other professional firefighters with respect to the operation and maintenance of vehicles, equipment, and apparatus.

**EXAMPLES OF DUTIES** - Duties may include, but are not limited to, the following:

Drive assigned apparatus to alarms, stage and spot apparatus at the proper location for maximum utilization and efficiency and competently operate and maintain fire apparatus and equipment.

Operate and oversee the use of numerous types of vehicles, equipment, tools, and apparatus.

Lay hose lines, obtain water supply, operate pumping, hydraulic, and other mechanical systems/equipment.

Inspect vehicles, equipment, and apparatus; perform cleaning, maintenance and minor repair work; identify the need for major repairs, perform daily, weekly, and annual performance checks and tests.

Assist with training personnel in the operation and maintenance of vehicles, equipment, and apparatus.

Respond to emergency calls to protect life and property; fight fires, provide medical assistance, and perform rescue operations, and perform salvage and overhaul.

Participate in fire inspections and other fire prevention activities.

## **EXAMPLES OF DUTIES (continued)**

Provide and support ALS/BLS care on medical emergencies.

Participate in drills and other training activities.

Serve as Fire Officer in his absence.

Participate in station maintenance and repair work.

Prepare reports with respect to work operations.

Operate radio equipment.

Perform supplemental tasks related to community service programs such as conducting public fire education tours, issuing bicycle licenses, blood pressure screening, and voter registration.

Perform related duties as assigned.

## **QUALIFICATIONS**

### **Knowledge of:**

Principles, practices, and procedures of modern firefighting and protection of lives and property.

Principles of mechanics, hydraulics, and mathematics as related to Fire Engineer duties.

EMT-1/EMP-P scope of practice, standards, techniques and other basic or advanced medical assistance techniques.

Purposes and uses of a variety of vehicles, equipment, tools, and apparatus used in firefighting, rescue, and medical assistance operations.

Defensive driving techniques.

Street numbering sequences, topography, water supply, locations of fire department connections at protected properties, target hazards, and general building construction characteristics within assigned district.

Departmental training material and standard operating procedures.

Federal, State, and city rules and regulations governing motor vehicles, safety, and fire prevention.

**Ability to:**

Demonstrate physical endurance, agility, strength, and stamina in the performance of hazardous tasks under emergency conditions.

Demonstrate a high degree of mechanical aptitude.

Effectively and safely drive and operate the full range of fire apparatus and equipment used by the department.

Perform field calculations of hydraulics for the proper and effective operations of equipment at emergency scenes.

Think and act quickly in emergencies.

Understand and follow oral and written directions promptly and accurately.

Deal courteously and effectively with the general public.

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

Meet professional performance objectives.

**Experience and Education:**

**Experience:**

Three years of paid full-time experience as a Firefighter in the City of Milpitas.

**Education:**

Equivalent to completion of the twelfth grade supplemented by the following three courses satisfactorily completed at an accredited community college, accredited EMS education provider, or through the California Fire Service Training and Education System:

1. Fire Apparatus Driver /Operator 1A – Emergency Vehicle Operations
2. Fire Apparatus Driver/Operator 1B – Pump Operations
3. Fire Protection Equipment and Systems (California State Fire Marshal Prevention 2A will be accepted) must be completed within the first 12 months of assignment.

**License or Certificate**

Possession of and ability to maintain an appropriate valid California Class B or C Driver's License and a Firefighter Endorsement per California Vehicle Code Section 12804.11 requirement effective January 1, 2011.

Possession of a valid EMT-1 or EMT-P certification and accreditation, and maintenance of said certification thereafter.

Successful completion of the Milpitas Fire Department Acting Engineer Program.

**SPECIAL REQUIREMENTS:**

*Essential duties require the following physical abilities and work environment:*

Ability to work a 24-hour shift and is subject to emergency response at any time. Employees may be required to perform any emergency response tasks, at any time during the 24-hour shift, for an unspecified period of time. Ability to perform job Inside 25% and Outside 75%.

Approved by:

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City Manager

\_\_\_\_\_  
Date

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Human Resources Director

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Date