

## Fire Engineer Job Description

Class specifications are intended to present a descriptive list of the range of duties performed by employees in the class. Specifications are not intended to reflect all duties performed within the job. Employees acting in this position will be held to this standard as well as that of their assigned rank.

### Summary Job Description

Responds to fire alarms, emergency medical calls, and other emergency calls to protect life, property, and the environment. Participates in fire training, fire prevention, public education, and station and equipment maintenance. Drives and maintains fire apparatus and operates fire pump. Reports to company officer or acting captain. Medical direction is received through EMS protocol and medical director. May be required to supervise firefighters or auxiliary positions.

### Representative Duties and Knowledge

The following duties are typical for this classification. Incumbents may not perform all of the listed duties and/or may be required to perform additional or different duties from those set forth below to address business needs and changing business practices.

- Responds to emergencies including, but not limited to, structure fire, wildland fire, vehicle fire vehicle accidents, injuries, trapped people or animals, fallen trees, down power lines, gas leaks, flooded structures, hazardous substances, and trail rescues
- Drives fire apparatus during emergency and non-emergency situations and operates fire pump. Drives other department vehicles as assigned
- Places fire hoses, operates fire streams, sets ladders, ventilates and enters burning structures to extinguish fires and perform rescue services. Has an understanding of fireground command, strategy, and tactics
- Performs salvage and overhaul operations during and after fires to remove hazards and prevent water damage
- Stands fire watch
- Lays hose, directs fire streams, constructs fire line, takes weather readings, and has an understanding of wildland/urban-interface command, strategy and tactics
- Understands the use of personal protective equipment and SCBA
- Knows the location of, and how to set up and use all medical equipment within EMT-B scope of practice and SBC EMSA policies and protocols; assists MTO and other agency paramedics when necessary
- Understands rescue operations and procedures
- Has an understanding of the Incident Command System as it applies to all emergencies
- Is able to safely and effectively operate all fire department equipment necessary to perform job duties including, but not limited to generators, pumps, ventilation fans, power saws, hand tools, and hydraulic tools
- Maintains proper licensing as required by CA DMV for fire department apparatus
- Inspects and performs maintenance on fire hydrants
- Has an understanding of hazardous materials operations, and performs decontamination procedures in compliance with CalOSHA regulations

- Performs commercial occupancy inspections, participates in fire prevention demonstrations, and has an understanding of fire prevention strategies and codes
- Participates in drills, and classes as directed
- Washes, polishes, and performs preventive maintenance on fire apparatus and equipment
- Cleans and maintains fire station and grounds
- Maintains fitness through a self-directed physical fitness program
- Presents programs and participates in the department's public relations programs as assigned
- Maintains a clean professional appearance, and behaves in accordance with the code of conduct at the Montecito Fire Protection District
- Is familiar with the policies, procedures, rules and regulations of the Montecito Fire Protection District
- May be assigned special projects by chief or company officer
- In the event of a major fire or emergency, may be called in from off duty to work an extended period of time; may be scheduled to work on days off when an open shift cannot be filled in accordance with force hire policy; may be sent to emergencies in other areas for an extended period of time
- Possesses the basic math skills necessary for fire pump calculations, USAR shoring calculations, and other job functions

#### Abilities

- Operate fire apparatus, fire pump, and other equipment in a safe and effective manner
- Perform competently under extreme pressure and in stressful situations
- Make accurate observations and rapid judgments
- Understand a variety of procedural instructions; written and oral, and convert to proper actions
- Give oral instructions to others
- Prepare clear, concise, accurate written reports
- Deal tactfully and effectively with the general public and co-workers
- Work cooperatively with others and contribute to a successful team effort
- Maintain physical endurance and agility
- Demonstrate an awareness and appreciation of the cultural diversity of the community
- Uphold the code of conduct of the Montecito Fire Protection District

#### Minimum Qualifications

Considerable knowledge of firefighting methods and techniques; operation and maintenance of engines, pumps, and other firefighting equipment; practical/applied hydraulics, traffic regulations, District topography and roadway system, principles and practices observed in rendering emergency medical services as established by the District. Knowledge of firefighting strategy and tactics, the Incident Command System, and alarm assignment responses. Ability to drive and operate firefighting equipment skillfully under a variety of conditions, compute appropriate engine and nozzle pressures, act effectively and quickly in emergency situations,

cooperate with others, deal effectively with the public, understand and follow verbal and/or written directions.

Must have 3 years of full-time experience with the Montecito Fire Department.

Class B or C California Driver's License with Firefighter endorsement.

EMT-B certification

CPR for the Professional Rescuer or equivalent certification

AED certification

CA State FF-1 and FF-2

Completed Engine Operator Task Book

Must not have been convicted by a state or by the federal government of a crime, the punishment for which could have been imprisonment in a federal or state prison.

#### Desired Qualifications

CA State Fire Officer Certification Eligible

#### Other Requirements

Successfully complete 12-month probationary period.

#### Physical Demands and Working Environment

The conditions herein 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 disabilities to perform the essential job functions.

#### Physical:

Constant upward and downward flexion of neck, side-to-side turning of neck; simple grasping and repetitive use of hands to hold radios, equipment and property; fine finger dexterity to manipulate apparatus controls, computer keyboard and writing utensils; lifting and carrying of objects weighing up to 10 lbs.

Frequent walking, standing, sitting, kneeling, climbing, balancing and squatting; bending and twisting at the waist; pushing, pulling and reaching above and below shoulder level; power grasping; walking on uneven ground; driving; lifting and carrying of objects weighing up to 25 pounds from below waist to above shoulder level; lifting and carrying objects weighing up to 100 lbs with or without assistance.

Occasionally running, crawling; lifting and carrying objects and persons weighing more than 100 lbs. with or without assistance.

#### Environmental:

Exposure to extreme heat, cold, humidity, and temperature swings working indoors and outdoors; extreme noise of emergency equipment; mechanical and electrical hazards of burning equipment, facilities and materials; explosive hazards of gases and explosive devices;

radiation hazards of locations having exposure to radioactive materials; fumes, odors and dust of atmosphere at fires and other emergency sites; biological hazards of bodily fluids, airborne and blood-borne pathogens; toxic substances of burning materials. Work is performed in 24-hour shifts, with time allowed for meals, breaks and sleeping subject to interruption as required by emergency situations. In the event of a major fire or emergency situation, incumbents may be called in from off-duty to work an extended period of time. Work is performed at the fire station and in the field at emergency sites and other locations. Work setting is both formal and informal, team oriented, having both routine and variable tasks. Work pace and pressure is variable, frequently fast-paced and high pressure.