

CITY OF BLACK HAWK
2024 Job Description

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| JOB TITLE: | Fire Engineer | DEPARTMENT: | Fire Department |
| REPORTS TO: | Fire Lieutenant | EXEMPT: | No |
| SALARY RANGE: | \$85,165 – \$119,231 / Annual | | |

SUMMARY

The Fire Engineer under limited supervision drives and operates fire apparatus in addition to performing general firefighting duties. The Fire Engineer is required to remain prepared and ready to respond to all calls for assistance. The Fire Engineer inspects and performs routine maintenance of firefighting apparatus to ensure proper working condition. Studies City street maps, pre-fire plans, and other material preparatory to being called on an alarm. Requires a high degree of independent judgment, initiative and understanding of Fire Department policies, rules and regulations, and the overall goals of the organization. Must have an in-depth understanding of fire behavior, and response protocols. Must have the ability to understand complex orders and concepts, and be able to communicate the same. Must have a good understanding of machinery, preventative vehicle maintenance, and minor vehicle repair.

ESSENTIAL DUTIES AND RESPONSIBILITIES

The Fire Engineer is assigned to a 48/96 shift schedule, and when not on an alarm is engaged in station work, which consists of preventative maintenance on all Fire Department vehicles, cleaning and maintaining the station and the surrounding grounds, physical fitness, and job-related training as assigned. The Fire Engineer spends a minimum of two hours each shift studying fire- and/or medical-related topics and two hours of physical fitness. Reasonable accommodations may be made to enable individuals with disabilities to perform job functions.

- The Fire Engineer must be familiar with the buildings in the City, to include the location of the annunciator panel, FDC, standpipe connections, how to read the panel, and locate the activated alarm device.
- Must maintain a high level of expertise in the use of all firefighting tools and equipment.
- Read and understand the Policies of the City of Black Hawk, the rules and regulations, and the standard operating guidelines of the Department.
- Conducts studies and recommends to their Fire Lieutenant new or different equipment, methods, and supplies to most effectively and efficiently accomplish the goals of the Department.
- Responds to alarms of fire or other emergencies and determine the resources needed.
- Attend department meetings and briefings relative to Fire Department operations and activities.
- Teach classes on a variety of subjects to other fire personnel and the citizens of the community.
- Answer general questions about the functions of the Fire Department.
- If approved by the Fire Chief, may assume the duties of Acting Company Officer.

- Performs other related duties as assigned.

SUPERVISORY RESPONSIBILITIES:

May supervise a junior member on calls, during station activities, and training.

MINIMUM QUALIFICATIONS

To perform this job successfully, the Fire Engineer must be able to perform each essential duty satisfactorily. The requirements listed below are representative of the knowledge, skill, and/or ability required.

- Knowledge of the principles, methods and techniques of modern firefighting.
- Knowledge of City and the Fire Department organization policies and procedures.
- Knowledge of the principles and practices of the organization.
- Ability to communicate effectively, both orally and in writing.
- Ability to be a team player, and to establish and maintain an effective and responsive working relationship with superiors and peers.
- Ability to research and prepare a report.
- Ability to analyze emergency situations and to adapt quickly, effectively, and professionally.
- Must be able to pass established written, oral, physical, medical, and psychological examinations.
- Must submit to fingerprinting and a detailed background investigation.

OTHER SKILLS AND ABILITIES

The Fire Engineer must be self-motivated and able to work well with very little supervision. Must have the ability to establish and maintain effective working relationships with superiors, peers, and the general public.

EQUIPMENT USED

The Fire Engineer shall be capable of using a multitude of equipment from basic hand tools to heavy motorized equipment. Most firefighting equipment is specialized and requires continuous training to maintain the skills needed to safely and effectively operate the equipment.

Examples of equipment are, but not limited to:

- Basic hand tools ranging from screwdrivers to fire axes to forcible entry tools.
- Power tools such as reciprocating saws, chain saws, drills, and hydraulic powered equipment.
- Specialized equipment such as generators, portable pumps, all types of ladders, extrication tools, gas and hazardous materials detectors, computers, radio communications equipment, and infrared cameras.
- Heavy equipment such as rescue vehicles, fire engines, aerial ladder trucks, and ambulances, including their associated equipment.

EDUCATION AND EXPERIENCE

The Fire Engineer shall be experienced in firefighting and EMS techniques. Additional education and training in the fire science/firefighting fields is highly desirable. Must have a general knowledge of rules, regulations, policies, and procedures of the Department.

- Must have a high school diploma or equivalency certificate.

- At time of application, must have one year of experience as a Senior Firefighter with the City of Black Hawk Fire Department or a comparable career fire department.
- Must be approved to function as an Acting Driver Operator at time of promotion.

CERTIFICATES, LICENSES, REGISTRATIONS

- Must possess a Colorado Driver's License with good driving record.
- Must have and maintain at a minimum a State of Colorado Department of Public Health and Environment certification as an EMT-B.
- Must have and maintain an American Heart Association Professional Rescuer CPR certification.
- Must have and maintain at a minimum a Colorado Division of Fire Prevention and Control Firefighter II certification.
- Must have and maintain at a minimum a Colorado Division of Fire Prevention and Control Hazardous Materials Operations certification.
- Must have and maintain at a minimum a Colorado Division of Fire Prevention and Control Driver Operator Pumper certification.
- Must have and maintain at a minimum NWCG Firefighter II Red Card Qualification.
- Must have NIMS IS-800 certification.

COMMUNICATION SKILLS

The Fire Engineer must have the ability to read, write, and understand written rules, regulations, policies, and standard operating guidelines. Must be able to read and interpret technical data from trade journals and textbooks. Must be able to respond to common inquiries from the general public, and have the ability to effectively present information to superiors, subordinates, and the public.

REASONING ABILITY

The Fire Engineer must be logical under stressful situations and have the ability to define problems, collect data, establish facts, and draw valid conclusions. Interpret a wide variety of technical instructions and deal with several abstract and concrete variables simultaneously.

PHYSICAL DEMANDS

The physical demands described here are representative of those that must be met by a Fire Engineer to successfully perform the essential functions of this job.

- The Fire Engineer is subject to high stress situations with little or no warning and may be involved for long periods of time.
- Could possibly come in contact with individuals who have contagious diseases.
- While performing the duties of this job, the Fire Engineer is regularly required to walk, run, and sit; use hands to finger, handle, or feel objects, tools, or controls; reach with hands and arms; climb and balance; stand, stoop, kneel, crouch, or crawl; talk and hear.
- The Fire Engineer is frequently required to detect odors and distinguish colors.
- The Fire Engineer must regularly lift and/or move more than 100 pounds.
- Specific vision abilities required by this job include close vision, distance vision, peripheral vision, depth perception, and the ability to adjust focus.
- The Fire Engineer must successfully complete a National Fire Protection Association 1582 compliant physical prior to employment.

- The Fire Engineer must successfully complete a National Fire Protection Association 1582 compliant physical and the NWCG Work Capacity Test with an Arduous rating annually.

WORK ENVIRONMENT

The work environment characteristics described here are representative of those a Fire Engineer encounters while performing the essential functions of their job.

- While performing the duties of this job, the Fire Engineer regularly works in a variety of outside weather conditions.
- Frequently works near moving mechanical parts and in highly precarious places.
- Is frequently exposed to wet and/or humid conditions, fumes or airborne particles, toxic or caustic chemicals, extremes of heat and cold, the risk of electrical shock, and high-noise environments.
- The Fire Engineer frequently drives or is a passenger in large apparatus that may be operating under emergency conditions. The apparatus may be operated in adverse weather conditions.
- The Fire Engineer may be required to be seated for long periods of time.

COMMENTS

The intent of this classification is to describe the types of job tasks and levels of responsibility and difficulty required of persons assigned to this classification title. This is not to be considered a detailed description of every duty/responsibility of the job.

The City of Black Hawk is an Equal Opportunity Employer. Pursuant to the *Immigrations Reform and Control Act*, it is the City's intention to hire only individuals who are United States citizens or those authorized to work and live in the United States.

I have read and fully understand the duties of the job description.

Sign: _____ **Date:** _____