

Fire Engineer Job Description

1313.1 GENERAL PURPOSE

The Fire Engineer position protects life and property by operating in a firefighting and fire apparatus driver/operator capacity at emergency scenes such as; fires, technical rescues, medical emergencies, hazardous material incidents, disaster operations, and any other emergency that presents risk to the public. This position is non-exempt and operates under the supervision of the company officer, group or division supervisor, or incident commander.

1313.2 ESSENTIAL JOB FUNCTIONS

- Ensures the response readiness and operating reliability of assigned firefighting, communication and personal protective equipment.
- Works on two consecutive 24-hour shifts and is prepared to respond at any time.
- Operates, drives, positions and spots vehicles and apparatus in a safe, proficient and professional manner in emergency and non-emergency situations.
- Determines and safely drives the fastest route to the emergency scene, observing established laws, policy and procedure and response codes.
- Positions and climbs ladders to gain access to upper levels of buildings or to assist individuals from burning or unsafe structures.
- Operates fire pumpers, aerial ladder trucks, and other support apparatus at emergency scenes.
- Administers first aid to ill or injured individuals and those overcome by fire and smoke with medical intervention at an Emergency Medical Technician (EMT) level; performs cardiopulmonary resuscitation (CPR); and operates a semi-automatic external defibrillator (AED).
- Performs general maintenance work in the upkeep of the fire facilities, equipment and apparatus; cleans and washes walls and floors; cares for the grounds around station; makes minor repairs; wash and dry hose; washes, cleans, polishes, maintains and tests apparatus equipment.
- Performs firefighting activities utilizing firefighting equipment and performing fire combat, containment and extinguishment tasks.
- Participates in the rescue and recovery of trapped persons utilizing specialized equipment and/or other operational needs as determined by the Incident Commander.
- Participates in business pre-fire planning and inspections of buildings, hydrants and other structures.
- Responds for recall to duty within Loveland Fire Rescue Authority (Authority) operating policies.

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- Responds to emergencies such as but not limited to fires, emergency medical incidents, extrications, technical rescue, hazardous material spills, mutual aid and public assistance calls.
- Maintains health and fitness standards meeting all Authority physical capability testing requirements on an annual basis, and prior to resuming full firefighting duties from extended or significant injury or illness.
- When a local declaration of emergency or disaster is declared and/or the Emergency Operations Center (EOC) is activated, all Authority employees may be required to work as a Disaster Service Worker.
- Participates in professional development opportunities and Authority training exercises.

ARFF Engineer

- Provides stand-by coverage for scheduled flights.
- Provides ARFF emergency incident response, as well as internal and external ARFF operations training for responding agencies.
- Maintains ARFF apparatus and equipment response readiness.
- Prepares for and assists with the annual FAA Inspection – ARFF section.
- Assists with maintaining the ARFF portion of the Airport's Emergency Response Plan (AEP).
- Assists with planning, facilitating, and/or participating in the FAA required table-top and full-scale exercises.
- Participates in ARFF related public education events and demonstrations.
- Responds to incidents that are in close proximity to the Fort Collins-Loveland Airport.
- Responds to significant incidents (1st alarm or greater).
- Covers vacancies on apparatus as directed.
- Performs pre-plans in the area of the Airport, Crossroads Blvd.

1313.3 OTHER JOB FUNCTIONS

- Serves as project/program team member or coordinator as assigned.

1313.4 SUPERVISORY DUTIES

- As deemed necessary at emergency incidents and in the station.

1313.5 JOB QUALIFICATIONS

Knowledge, skills and abilities:

- Solid knowledge of emergency medical services; knowledge of current emergency medical care principles and techniques.

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- Ability to safely operate and drive fire apparatus of all sizes and types; knowledge of applicable laws, codes, and regulations related to driving and operating these apparatus.
- Ability to operate fire suppression and emergency equipment.
- Ability to apply standard firefighting, emergency aid, hazardous materials, and fire prevention techniques.
- Ability to safely operate in personal protective equipment and clothing in extremely hazardous environments.
- Ability to perform strenuous or peak physical activities during emergency, training or station maintenance activities for prolonged periods of time under conditions of extreme heights, intense heat, cold, or smoke.
- Ability to act effectively in emergency and stressful situations.
- Ability to follow verbal and written instructions in the English language; able to effectively communicate in writing and verbally in the English language.
- Ability to speak clearly while operating in stressful and/or hazardous environments.
- Ability to establish effective working relationships with employees, other agencies and the public.
- Solid skill level with problem-solving; including equipment and apparatus troubleshooting.
- Capacity to operate with self-contained breathing apparatus in confined spaces, independent of other members, without claustrophobic tendencies.
- Ability to lift, carry or drag weight in excess of one's own body weight while ascending/descending stairs and fire department ladders; able to operate at higher elevations and do so with mobility and flexibility without jeopardizing the safety of self or other members.
- Basic skill level with Microsoft Office Suite including Microsoft Word, Excel, and PowerPoint applications.
- Basic skills with data management systems and specific and customized software applications (i.e. records management and data analysis systems.)
- Able to arrive on time for each scheduled shift.

Core Expectations:

Response, Readiness, Relationships, Resources, Positional Leadership

Education:

- Associate's Degree in the Fire Protection discipline or related field is preferred.

Experience:

- 12 months of current and continuous service as a full time paid Authority firefighter or higher

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- Current Authority Acting Engineer and successful completion of the Authority Driver Operator Academy within the last 36 months

License/Certification Requirements:

- Colorado, DFPC, IFSAC Firefighter II
- Colorado, DFPC, IFSAC Hazardous Materials Operations level certification
- Colorado, DFPC, IFSAC Driver Operator Pumper
- Colorado, DFPC, IFSAC Driver Operator Aerial within 24 months of hire or promotional date
- State of Colorado EMT-B
- Current Healthcare Provider CPR certification
- NWCG Firefighter 1 (S-131)
- S-290 and L-180
 - Preferred L-280
- NIMS ICS 100/200/700/800
- Ice Rescue Technician certification
- Completion of an Emergency Vehicle Operations Course (VFIS or equivalent)
- Valid Driver's license with a safe driving record

ARFF Assignment

- 12 months of current and continuous service as an Authority engineer
- ARFF Part 139 Live Fire Certificate (required within 60 days of the rotation)
- Blue Card Incident Commander (required within 12 months of the rotation)
- State of Colorado Fire Officer I preferred

Requirements to act as Lieutenant:

- 12 months of current and continuous service as a full time paid Authority engineer or higher
- Completed Acting Lieutenant Task Book
- Colorado, DFPC, IFSAC Fire Officer I
- Colorado, DFPC, IFSAC Fire Instructor I
- Blue Card Hazardous Zone Management certification or successful completion of Blue Card 50 hour On-Line Training Program
- Successful completion of the Authority Officer Academy
- Successful completion of the Authority Acting Officer task book following the Academy

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- Successful completion of the Acting Officer skills validation assessment

1313.6 PHYSICAL REQUIREMENTS*

Must be able to:

- Wear and operate SCBA, mask, and other protective equipment in hazardous and confined spaces independent of other members
- Wear a variety of uniforms, vests, and equipment weighing up to 45 lbs.
- Drive and get into and out of apparatus and vehicles repeatedly
- Push manually with an average force of 73.3 lbs.
- Pull manually with an average force of 96 lbs.
- Climb through small openings and crawl or maneuver in confined spaces
- Work in hazardous work areas and medical/trauma situations which may involve exposure to bodily fluids and hazardous materials
- Rapidly go from stationary to exertion
- Work holidays, weekends, and overtime as needed

Strength – Very Heavy

Movement

- Occasionally – standing, climbing, balancing, crawling, fine finger manipulation, squatting, kneeling, stooping, trunk bending, backward bending.
- Frequently – sitting; walking; uneven terrain; climbing; forward, horizontal, and overhead reaching; forceful gripping; trunk twisting; cervical flexion, extension, rotation, and lateral flexion.
- Constantly – overhead reaching

Auditory – Not Limited

- Talking and hearing.

Vision – Required

- Near acuity, far acuity, depth perception, adjustment, color vision, field of vision.

Environmental Conditions and Physical Surroundings – Exposure

- Occasional – exposure to weather, extreme cold, wet and/or humid, vibration, hazards, confined/restricted working environment, platform for movement.
- Frequent – extreme heat/fire, noise, atmospheric conditions.

Equipment Utilized

- Office equipment, basic hand tools, firefighting equipment and vehicles, heavy equipment.

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Hazards

- Rare – proximity to moving, mechanical parts; exposure to electrical shock; working with explosives.
- Occasional – Working in high, exposed places; exposure to radiant energy; exposure to caustic chemicals; exposure to bloodborne pathogens; exposure to infectious diseases.
- Frequent – exposure to dust, fumes, gases or airborne particles; working in road ways or construction zones.

Computer Use – Frequent

Driving – Occasional

** Definitions of LFRA physical requirements*

This job description has been written to provide an accurate reflection of the current job and to include the general nature of work performed. It is not designed to contain a comprehensive detailed inventory of all duties, responsibilities, and qualifications required of the employees assigned to the job. Management reserves the right to revise the job or require other or different tasks be performed when circumstances change.