

CITY OF LINCOLN

FIRE ENGINEER

*Class specifications are only intended to present a descriptive summary of the range of duties and responsibilities associated with specified positions. Therefore, specifications **may not include all** duties performed by individuals within a classification. In addition, specifications are intended to outline the **minimum** qualifications necessary for entry into the class and do not necessarily convey the qualifications of incumbents within the position.*

DEFINITION:

Under general supervision, to participate in fire suppression and fire prevention activities; to respond to emergency situations and provide medical assistance; to be responsible for the operation, readiness, condition and maintenance of a variety of fire apparatus, firefighting and rescue equipment; and to perform related work as required.

DISTINGUISHING CHARACTERISTICS:

The **Fire Engineer** is distinguished from the Firefighter in that the former has primary responsibility to drive to emergency situations, and provide maintenance to a variety of fire apparatus, firefighting and rescue equipment along with participating in fire suppression and fire prevention activities.

SUPERVISION RECEIVED/EXERCISED:

Incumbents receive direct supervision from a Fire Captain or superior officer.

ESSENTIAL FUNCTIONS: *(include but are not limited to the following)*

- Respond to emergency fire, rescue, medical aid and public service calls; operate a variety of firefighting equipment and fire apparatus and perform essential fire suppression and rescue functions.
- Drive and operate apparatus in a safe manner at all times.
- Respond to incident and select the most direct routes to the scene.
- Lay hose lines and operate engine pumping equipment as required; operate nozzle and direct stream of water on fire.
- Clean, inspect, and maintain apparatus and equipment; make minor adjustments and repairs.
- Assist in returning all apparatus and equipment to in-service condition following any alarm or detail.
- Instruct fire personnel in the operation and maintenance of fire equipment.
- Participate in the cleaning and maintenance of station quarters, equipment, and apparatus.
- Learn and observe department rules and regulations.
- Follow all orders and directions immediately.
- Follow any pre-planned methods of operation as they apply to the type, location and conditions of any emergency.
- Participate in fire drills, fire training sessions, and exercise.
- Assist in fire prevention activities as assigned.
- Perform related duties and responsibilities as required.

PHYSICAL, MENTAL AND ENVIRONMENTAL WORKING CONDITIONS:

Incumbents must possess mobility and physical strength and stamina to respond to emergency situations and use all emergency apparatus while wearing personal protective equipment; must demonstrate physical endurance, agility, strength, and stamina in the performance of hazardous tasks under emergency conditions; think and act quickly in emergencies; lift and move individuals or objects weighing more than 100 pounds; ability to work in a standard office setting and to operate motor vehicles; vision to read gauges, documents and street maps; accurate depth perception; ability to communicate verbally, including projecting a voice that can be heard in a noisy environment; ability to hear and distinguish various sounds, such as alarms, voices of co-workers and warning horns or sirens in both quiet and noisy environments; ability to stand, walk, bend and reach at, above or below shoulder height for extended periods of time; sustained concentration and prolonged commitment to job tasks.

Working Conditions:

Employees in this class must be able to work with exposure to emergency circumstances; work both inside and outside with exposure to all types of weather conditions, including odors, dust and pollen; exposure to chemicals, skin irritants, fumes and solvents; willing to work irregular hours and/or extended shifts as scheduled by the department; and work at various locations within the City of Lincoln.

QUALIFICATIONS: *(The following are minimal qualifications necessary for entry into the classification.)*

Education and/or Experience:

Any combination of education and experience that has provided the knowledge, skills and abilities necessary for a **Fire Engineer**. A typical way of obtaining the required qualifications is to possess the equivalent of three (3) years of full-time fire service experience, or two (2) years of continuous full-time career suppression experience with the Lincoln Fire Department.

Equivalent to the completion of the 12th grade.

License/Certificate:

- Minimum possession of a valid State of California Class C operator's license with a Firefighter endorsement
- Possession of a valid EMT-1 Certification recognized by the local EMS agency; and possession of a valid Cardiopulmonary Resuscitation (CPR) card
- State of California Certified Firefighter I & II Certificate, or equivalent
- Successful completion of California Fire Training Driver Operator IA and IB

Completion of Engineer Task Book:

Once the minimum requirements outlined above have been met, an Engineer Task Book will be issued. If the task book has not been completed prior to a promotional exam opportunity, or if an applicant is hired from the outside, the Task Book must be completed within one (1) year after appointment to the Engineer position. Acting Engineer candidates must complete the Engineer Task Book within twenty-four (24) months. The completion period for the Task Book may be extended at the discretion of the Fire Chief.

Uniform Requirement:

Incumbents are required to wear a designated uniform and personal protective equipment.

Criminal History and Background Check:

Candidates who have accepted a conditional offer of employment must pass a background investigation, including fingerprints.

KNOWLEDGE/ABILITIES/SKILLS: *(The following are a representative sample of the KAS's necessary to perform essential duties of the position.)*

Knowledge of:

- Principles, practices, and procedures of modern fire suppression, hazardous materials containment, rescue, clean-up, and salvage
- Firefighting vehicles, equipment and apparatus and prevention
- Operation and maintenance of various apparatus and equipment used in modern firefighting activities
- Modern principles of mechanics, hydraulics, and mathematics as related to Driver Operator duties
- Safety practices and equipment related to the work
- Area topography, physical conditions, street names, numbers, water mains and hydrant locations and target areas of the City
- Applicable laws, codes and ordinances
- Medical aid, rescue, and resuscitation equipment practices
- Principles and practices of hazardous materials response
- Principles and practices of basic report writing
- Proper English usage, grammar, spelling, and punctuation
- Records management principles and practices
- Computer applications related to the work
- Practices and techniques of driving varied vehicles and operating a wide range of fire apparatus
- Techniques for dealing effectively with and solving the problems presented by a variety of individuals from various socio-economic, cultural and ethnic backgrounds, in person and over the telephone, often in emergency or stressful situations

Ability to:

- Operate, maintain and repair fire equipment and apparatus
- Drive, operate, maintain, and repair fire equipment and apparatus or safety vehicles
- Operate vehicle and apparatus safely and in conformance with department procedures and traffic laws
- Perform field calculations of hydraulics for the proper and effective operating equipment at emergency scenes
- Perform fire suppression, hazardous materials containment, and associated rescue and salvage work in a safe and effective manner
- Learn the geographic layout of the City and the surrounding areas and the location of various fire suppression utilities
- Maintain accurate records and clear and accurate reports and other written materials
- Make sound decision, use good judgment, and think clearly and effectively in emergency situations
- Analyze situations correctly and take quick, effective and reasonable courses of action with regard to surrounding hazards and circumstances
- Respond to alarms and promptly obey all orders given by the Fire Captain or superior officer
- Learn pertinent federal, state, and local laws, ordinances, regulations, and guidelines relevant to assigned duties
- Understand and follow City and Fire Department rules and regulations
- Prepare clear and concise reports and other written documents (equivalent to position)
- Participate in fire prevention and public education activities in the community

- Communicate clearly and tactfully, both orally and in writing
- Establish and maintain effective working relationships with those contacted in the course of work
- Coordinate and carry out special assignments
- Use English effectively to communicate in person, over the telephone and in writing
- Operate modern office equipment including computer equipment and software programs
- Use tact, initiative, prudence and independent judgment within general policy, procedural, and legal guidelines
- Meet the physical requirements necessary to safely and effectively perform the assigned duties