

CITY OF RIO VISTA

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, drives and operates fire apparatus and other vehicles in response to fire, rescue, hazardous materials and emergency calls; assists in the suppression of fires and the protection of life and property; maintains apparatus and equipment in a state of readiness; participates in public education programs related to fire prevention and safety; maintains hydrants and hoses; demonstrates a full understanding of all applicable policies, procedures and work methods associated with assigned duties; assists in the training of lower level positions; performs related duties as assigned.

DISTINGUISHING CHARACTERISTICS:

The **Fire Engineer** is the journey level class responsible for independently performing the full scope of assigned duties including driving, operating, inspecting and maintaining fire apparatus and equipment. Incumbents may also provide training for lower level personnel, and must be able to exercise judgment and initiative. This series is distinguished from the next lower classification of Firefighter / Paramedic by the specialized and complex work performed and a higher degree of independent action.

SUPERVISION RECEIVED/EXERCISED:

Supervision is provided by a Fire Captain. Incumbents of this class do not routinely exercise supervision.

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

- Responds to fire, rescue, hazardous materials and other emergency alarms by driving and operating fire apparatus, other emergency vehicles and equipment; may select the most direct route of response.
- Operates and maintains light, medium and heavy duty fire apparatus and emergency vehicles including ladder trucks, pumpers, rescue and hazardous materials vehicles, as well as related equipment such as laying hose lines and operating engine pumping equipment; operates a variety of hand and power tools such as rescue saws and harnesses, jaws of life, chainsaws, dry chemical extinguishers, shingle rakes, pike poles, extension ladders, pickhead axes and other related tools; assumes primary responsibility for the inspection, servicing and maintenance of assigned vehicles, equipment and tools to ensure readiness in emergency situations.
- Demonstrates a full understanding of applicable policies, procedures, work methods and safety requirements associated with assigned duties.
- Performs fire safety functions in a variety of specialized areas such as ladder truck operations, hazardous materials first response, urban search and rescue, beach and water rescue, wild-land firefighting, high-rise fire fighting, confined space rescue, public education and driver training.

- Assists in the suppression of fires and protection of life and property; operates resuscitators and administers emergency medical aid; inspects commercial and residential structures to insure compliance with federal, state and local fire prevention laws, codes and regulations; participates in training for emergency situations.
- Assists in the maintenance of fire station, quarters and surrounding grounds; tests and maintains fire hoses and hydrants.
- Responds to questions and concerns from the general public, provides information as is appropriate and resolves complaints; participates in public education programs related to fire prevention and safety; conducts station tours.
- May act as person in charge of fire department personnel in the absence of a superior officer; may be required to serve as acting Fire Captain or perform other fire suppression or prevention duties.
- Respond to emergency medical incidents, and care for patients until relieved by a higher medical authority.
- Perform first aid at the Emergency Medical Technician level.
- Establishes positive working relationships with representatives of community organizations, state/local agencies and associations, City management and staff, and the public.

WORKING CONDITIONS:

The position may require performing strenuous tasks for extended periods of time, requiring lifting or carrying up to 45 pounds and over, pulling, pushing, reaching above the shoulder, crawling, kneeling, climbing and bending; making rapid transitions from rest to near exertion without warm-up periods; and working inside or outside. Incumbents perform physically demanding work wearing self-contained breathing apparatus and heavy personal protective equipment while performing firefighting tasks in hot, humid atmosphere; the incumbent may perform a variety of tasks on slippery, uneven, or hazardous surfaces, work on ladders and roofs, perform complex task during life-threatening emergencies, relying on senses of sight, hearing, smell and touch to help determine the nature of the emergency, maintain personal safety and make critical decisions in a confused, chaotic, and potentially life-threatening environment throughout the duration of the critical incident or emergency response; the incumbent may work closely with others, deal with people in trauma and risk exposure to bloodborne pathogens. The position also requires individuals to operate a motor vehicle with lights and siren subjecting the incumbent to high noise, vibration, electrical energy, moving objects, and vehicles. The incumbent may be exposed to the elements outside, dusts, toxic chemicals, fumes, smoke and gases.

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

the equivalent of two years in the fire service, a high school diploma or equivalent and be at least 21 years of age.

License/Certificate:

Possession of, or the ability to obtain a valid class B California driver's license with tank endorsement. Possession of a California State Fire Marshal's Firefighter One Certificate, California State Fire Marshal Apparatus Operator 1A and 1B certificate, Emergency Medical Technician and CPR certificate.

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

Knowledge of:

Basic firefighting, hazardous materials and rescue techniques and procedures; design, operation and maintenance of firefighting, hazardous materials and rescue equipment; principles of fire hydraulics and fire behavior; methods and techniques of fire prevention and suppression; applicable federal, state and local laws, codes and regulations and nationally recognized fire safety standards; labeling and placarding systems for hazardous materials; principles, practices, and procedures of modern firefighting and firefighting vehicles, equipment and apparatus; first aid and other emergency medical techniques; geography of the City and location of water mains and hydrants; methods and techniques of record keeping; occupational hazards and standard fire and hazardous materials safety procedures.

Ability to:

Operate, inspect and maintain fire apparatus and related emergency equipment in a safe and efficient manner; learn emergency medical techniques to Department standards; demonstrate physical endurance, agility, strength, and stamina in the performance of hazardous tasks under emergency conditions; think and act quickly in emergencies; work under pressure in hazardous conditions; understand and follow written and oral instructions; perform duties requiring physical endurance, agility and mechanical abilities; assist in training and instructing less experienced personnel; act as person in charge of fire department personnel in the absence of a superior officer; establish and maintain effective working relationships with staff, members of the public and others encountered in the course of work.

Skill to:

Drive all vehicles used in firefighting, rescue, and medical assistance operations; operate all apparatus, pumps; ladders; equipment, tools, devices and facilities used in firefighting, rescue, and medical assistance operations; use modern firefighting methods; perform EMT and CPR; operate two-way radio and other communications equipment.