

City of Imperial Beach
POSITION DESCRIPTION

Title: Fire Engineer
Department: Public Safety
Division: Fire

GENERAL PURPOSE

Under supervision, to respond to fire alarms and other emergency calls for the protection of life and property; to have primary responsibility for the operation, use and routine maintenance of fire vehicles and pumping equipment utilized during fire fighting activities, to render aid and lifesaving assistance; to perform a full range of fire fighting duties; and to perform related work as assigned

SUPERVISION RECEIVED

Works under the direct supervision of the Fire Company Officer.

SUPERVISION EXERCISED

Supervises firefighter positions in the absence of the Fire Company Officer.

ESSENTIAL DUTIES AND RESPONSIBILITIES

Positions in this class drive and operate fire apparatus and hydraulic controls at a fire incident but may perform other duties upon order of the incident commander. Incumbents are expected to render aid and lifesaving assistance in the face of extreme conditions. Upon approval of the Fire Chief, incumbents meeting the requirements for Fire Captain may be required to perform the duties of Fire Captain when the level of manpower so requires. Each incumbent performs ancillary duties involving the administration of the fire department. These collateral duties may be in the areas of fire prevention, public education, inspection, inventory, training, or other aspects of the fire suppression/prevention programs. Some positions in this class may be designated as Paramedic. In such instances, additional training, certification, duties and responsibilities are required.

PERIPHERAL DUTIES

Responds to alarms; drives fire equipment to fires; operates a pumping apparatus engaged in boosting water pressure from street mains, or draft, through hose lines to nozzles; uses hydraulic theory and mathematics to calculate correct pump pressure to ensure required water pressure at the nozzles; assumes responsibility for operation of pumps; cleans, washes and services equipment; inspects equipment and pump motors; cleans and maintains hoses carried on equipment; places truck in appropriate position at the scene of a fire or in other emergencies calling for ladders or special equipment; performs a full range of fire fighting duties; performs rescue and lifesaving work through the use of ladders and resuscitation equipment; estimates the heights and adjust equipment to ensure proper and safe operation; conduct inspections of public assemblies and commercial, industrial or government buildings and other public establishments to secure compliance with codes and regulations pertaining to fire

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safety; issue orders to comply with codes; inspects and tests fire protection systems; examines the storage, handling and use of flammable liquids and other hazardous materials; makes recommendations regarding correction of hazards; assists in the investigation of fires; responds to complaints and requests for information from the public; assists in maintenance of the fire station and grounds; conduct daily inspections of condition and readiness of equipment; performs annual fire pump tests; flow tests hydrants; studies the geography of the City, location of fire hydrants and emergency medical methods, administers emergency medical aid to victims of accidents and fires; operates lifting, hoisting, spreading and pulling equipment; operate foam and additive proportions; assumes charge of the engine company, when assigned, in the absence of the Fire Captain; perform a variety of collateral administrative work involving fire prevention and suppression programs; engages in public information activities; maintains inventories; recommends purchase of fire fighting and other equipment; maintains physical fitness; operates City vehicles; and performs related work as required.

SPECIAL REQUIREMENTS

Possession of appropriate California Driver's license for fire apparatus; possession of a California State Firefighter 1 and 2 Certificate is required; possession of a valid CPR card; possession of a valid Emergency Medical Technician 1 Certificate is required; possession of Defibrillation Accreditation is required.

Possession of Esophageal Tracheal Combitube Accreditation is required; possession of State of California EMT-P License and San Diego County; accreditation is required of positions in this class designated as Paramedic; possession of Advanced Cardiac Life Support Accreditation is required of positions designated Paramedic.

KNOWLEDGE OF

ALL POSITIONS

Hydraulic principles related to fire fighting; knowledge of modern building construction; city geography and water systems; technical fire fighting principles and techniques; basic mathematics and mechanical relationships; emergency Medical Aid; appropriate safety precautions and procedures.

FIRE ENGINEER/PARAMEDIC

Laws, ordinances and codes governing Paramedics; diagnostic signs and treatments for injury and illness as described in the State and County Scope of Practice guidelines; medical supplies, pharmaceuticals and common prescription drugs.

ABILITY TO

ALL POSITIONS

Calculate hydraulic engineering problems under emergency conditions; drive fire apparatus safely; perform skilled fire fighting duties; respond quickly to changing situations under emergency pressures; perform emergency medical aid at the EMT 1 D,C level; use tools and equipment used in fighting fires; perform mechanical work involved in maintaining the fire fighting and rescue vehicles, equipment and tools; understand and carry out oral and written instructions; establish and maintain effective relationships with those contacted in the course of work.

FIRE ENGINEER/PARAMEDIC

Perform Advanced Life Support in accordance with established procedure.

EDUCATION AND EXPERIENCE

Any combination of training and experience which demonstrates possession of knowledge and abilities stated above and the ability to perform the duties of the position. A typical qualifying entrance background is experience as a Relief Engineer or Fire Engineer with a municipal fire department, and Completion of 30 units of fire science curriculum course work including Driver Operator 1A and 1B and a minimum of two (2) years experience as a paid member of a municipal fire department.

PHYSICAL DEMANDS

Positions in this class perform work which involves the frequent lifting, carrying, pulling and/or pushing of 100 pounds with occasional lifting, pulling and/or carrying of objects over 100 pounds. Positions in this class require the mobility to stand, climb, stoop, reach and bend. Positions in this class require mobility of arms to reach and dexterity of hands to grasp and manipulate objects of heavy weight at high pressures. Positions in this class require vision (which may be corrected) to read small print. Incumbent may be required to work with harsh or toxic substances; incumbent may be required to wear protective apparel including goggles; face protectors, aprons, shoes and oxygen breathing apparatus; incumbent may be required to work at considerable heights; incumbent may be required to sustain physical exertion and/or to work in physically uncomfortable positions for prolonged periods; incumbents of positions designated as Paramedic require the additional knowledge and abilities of the Paramedic assignment designation.

PHYSICAL DEMANDS

Positions in this class perform work that involves the frequent lifting, pulling and/or pushing of 100 pounds with occasional heavier lifting, carrying, pushing or pulling; position in this class require the ability to stand, climb, stoop, reach and bend; positions

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in this class require mobility of arms to reach and dexterity of hands to grasp and manipulate objects of heavy weight at high pressure; positions in this class require vision (which may be corrected) to read small print; incumbents may be required to work with harsh or toxic substances; incumbents may be required to wear protective apparel including goggles, face protectors, aprons, shoes and self-contained breathing apparatus; incumbents may be required to work at considerable heights; incumbents may be required to sustain physical exertion and/or to work in physically uncomfortable positions for prolonged periods; incumbents serving in the capacity of Fire Engineer/Paramedic must maintain their Paramedic certification as a condition of employment.