



MECHANICAL INSPECTOR I

Occupational Code: 2158

Salary Range: 27A

Status: Classified

FLSA: non-exempt

Established: 2/74

Revised: 12/88 6/96

NATURE OF WORK:

This is skilled, inspections and enforcement work to ensure compliance with the South Florida Building Code and other applicable codes and regulations as it relates to the installation and operation of mechanical systems.

Work involves the inspecting of boilers and other pressure vessels, elevators, escalators, other mechanical or land lifts, ventilators, air conditioners, gas pipes and appliances in order to determine their conformity to legally established requirements. Supervision is received from a technical superior who assists in interpretations of law, discussion of difficult problems, and reviewing of work reports and reports of violations.

ESSENTIAL FUNCTIONS: (The examples of work listed in this class specification are not necessarily descriptive of any one position in the class. The omission of specific statements does not preclude management from assigning specific duties not listed herein if such duties are a logical assignment for the position. Examples of work performed are not to be used for allocation purposes.)

Inspects fired pressure vessels with pressure in excess of fifteen (15) pounds per square inch; conducts internal and external inspections by examining for loose braces, corrosion, pitting, and fire cracks; takes measurements, makes hydrostatic test, and checks safety valves and steam gauges, pumps, and injectors; computes safe working pressure, using safety factors based on general age and efficiency.

Inspects elevators, escalators, and other lifts by examining cables, safety devices, safety electrical contacts in connection with safety interlocks, cable shackles and their connections and overhead construction.

Inspects existing and new installations of fuel gas lines, pipes, storage tanks, and appliances for compliance with laws and regulations.

Inspects large ventilating and air conditioning installations, refrigeration systems, duct work, heating systems and similar installations to insure compliance with the existing laws and building codes.

Interprets code to contractors, builders and owners in regards to violations and methods for correction.

Performs joint inspections, Certification of Use inspections, and follows up on complaints.

Completes required forms and inspection reports.

Secures evidence in cases of violation and when necessary, may aid in prosecution of violators.

Performs other related work as required.

DESIRABLE KNOWLEDGE, ABILITIES AND SKILLS: (The knowledge, abilities and skills identified in this class specification represent those needed to perform the duties of the class. Additional knowledge, abilities and skills may be applicable for individual positions in the employing departments.)

Considerable knowledge of the South Florida Building Code and all other applicable codes, standards and regulations pertaining to mechanical systems, and fire safety.

Considerable knowledge of the construction, operation, maintenance and inspection of high and low pressure boilers and the safety devices used in their operation.

Considerable knowledge of the installation and maintenance requirements of commercial air conditioning, refrigeration, heating, ventilating and fuel gas systems.

Ability to establish and maintain effective working relationships with subordinates and other employees, building owners, contractors, architects, engineers and the general public.

Ability to prepare and maintain complete and accurate records and to make effective reports concerning work performed.

REQUIREMENTS:

Must meet the requirements for Mechanical Inspector as stipulated under the South Florida Building Code and the Florida Statutes, if applicable. A valid Florida Drivers License.

Note: Special requirements or exceptions may be necessary depending upon needs of the City, however, they must be in accordance with the requirement of the South Florida Building Code and Florida Statutes.

TOOLS AND EQUIPMENT:

Personal computer, including word processing and permitting software; calculator; pencil; ruler; drills; hand tools; screwdrivers; copy machine; phone; two-way radio.

PHYSICAL DEMANDS: (The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.)

Work is performed mostly in office settings. Some outdoor work is required in the inspection of various land use developments, construction sites or during field supervision, as necessary. Hand-eye coordination is necessary to operate computers and various pieces of office equipment.

While performing the duties of this job, the employee is very frequently required to sit, stand, talk, hear; use hands to finger, handle, feel or operate objects, tools or controls; and reach with hands and arms; read and write in English. The employee is occasionally required to lift up to 14lbs, climb stairs, reach above and below shoulders; work outside, exposed to dust or fumes, vibrations, high temperatures; walk and bend.

WORK ENVIRONMENT: (The work environment characteristics described here are representative of those employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.)

The noise level in the work environment is usually quiet in the office, and moderate to loud in the field.