

ELEVATOR INSPECTOR

DESCRIPTION OF WORK

This is regulatory work in enforcement of the provisions of the State and national safety codes covering elevators and related passenger carrying devices.

Employees inspect a variety of equipment to determine its safe working condition and operation and to detect hazards or mechanical failures which would endanger passengers, employees, and repairmen. Employees consult with management and offer technical assistance concerning safety equipment and devices and methods of operation. Inspectors are delegated condemnation authority of passenger carrying equipment where unsafe conditions are considered to cause an imminent threat to the riders. Work includes conducting thorough investigations of accidents where equipment or unsafe operation is involved. Work is performed under the general supervision of the Assistant Director and reviewed through weekly reports, observation of inspections, and in periodic conferences.

EXAMPLES OF DUTIES PERFORMED

Schedules and conducts final field inspections and issues a certificate prior to equipment being used for conveyance of passengers and periodic reinspections to determine that equipment is being safely maintained and conforms to standards of the safety codes; types of equipment inspected include: passenger and freight elevators, escalators, aerial passenger tramways, amusement devices, special related equipment, and workmen's hoists.

Inspects elevator hoist-ways, passenger cars, machinery, moving parts and cables, safety devices and equipment, auxiliary power sources, electrical wiring and hydraulic systems, where applicable, to determine compliance to design requirements and safety codes.

Conducts loading tests of passenger cars based on weight capacity to determine that cables, trusses, and towers are of sufficient strength, and performs Counterweight safety tests, and speed tests; determines that the number and size of cables conform to minimum requirements; tests safety equipment such as interlocking devices and anti-rollback devices.

Points out unsafe equipment and recommends needed repairs or alterations to owners, operators, or company representatives.

Observes operators of lifts and amusement devices for safe operating procedures; requires owner or his representative to replace incompetent or negligent employees.

Examines blueprints and drawings of installations and equipment to determine compliance to approved construction standards and maintenance.

Performs related duties as required.

RECRUITMENT STANDARDS

Knowledges, Skills, and Abilities

Considerable knowledge of the construction and operation of elevators, escalators, and similar equipment.

Working knowledge of applicable State and national safety codes for elevators, amusement devices and special equipment.

Working knowledge of electric motors and electrical wiring and hydraulics.

Working knowledge of algebra and geometry.

Ability to understand and use discretion in applying technical regulations and provisions of the safety codes concerning the use and condition of elevators and related installations.

Ability to understand and apply formulae, involving algebra and geometry and data in tabular and graphic form, to given conditions and to derive a correct solution.

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Ability to maintain effective working relationships with owners, operators, company representatives, and the public.

Ability to communicate effectively in written and oral form.

Minimum Education and Experience

Graduation from high school and five years of experience in the construction, inspection, erection, or servicing of elevators and related equipment; or an equivalent combination of education and experience.

PREPARED BY
OFFICE OF STATE PERSONNEL

Revised: August 1974