

Summary of Duties: Inspects the construction of a wide variety of public works, public utilities projects, or public improvements to ensure conformance with safety regulations, plans, specifications, contract provisions, and legal requirements; and does related work.

Distinguishing Features: A Construction Inspector works independently or assists on large projects by inspecting one or more phases of the work. In either case, an employee in this class receives limited supervision with unusual problems being referred to a supervisor. An employee of this class is responsible for ensuring contractors conformance to plans and specifications of materials and construction methods used, that proper safety precautions are taken for protection of workers on the job and the general public, and that adequate measures are taken for public convenience during construction. A Construction Inspector participates in some aspects of construction contract and permit administration by recommending and reporting on a variety of projects progress issues and records.

Examples of Duties: Checks line and grade, subgrade preparation, and the placing, tamping, vibrating, and finishing of concrete in sidewalk, curb, gutter, and other construction; inspects paving of various types, including asphaltic concrete and portland cement concrete; inspects timbering and bracing in trenches and tunnels, assuring that adequate measures are taken for the safety of workers and the public in conformity with provisions of State Safety Orders and the Municipal Code; inspects the installation of sanitary sewers and records locations of substructures, house connections, laterals, and wyes; inspects the erection of falsework, concrete forms, and the placement of reinforcing steel; checks backfilling and soil compaction in excavations and fills; checks curbs, sidewalks, street paving, and construction adjacent to excavations for settlement or lateral movement of earth; inspects lateral support systems to protect City property and improvements, and street light and traffic signal installations;

Inspects concrete and bituminous materials at mixing plants to assure that proportions of aggregates and mixing of batches conform to specifications; takes samples of aggregates, cement, and asphalt at mixing plants and of concrete, reinforcing steel, and other construction materials on the job; makes slump tests and concrete test cylinders; inspects the fabrication of items such as concrete and steel piles, structural steel, and reinforces concrete pipe; inspects the selection and treatment of wood files and timber; inspects the construction of airport, harbor, recreation and park improvements, sewage treatment plants, water reclamation plants and public building facilities, which may include inspection of

electrical, mechanical, plumbing, heating, communication, fire detection and warning systems, ventilation and air conditioning components, and instrumentation and control systems;

Inspects the construction of storm drains, pipelines, steel and concrete structures, wharf decks, runways, taxiways, tunnels, rock blankets, mounds, jetties, and other public works type projects; inspects the treatment and driving of wood, concrete, and steel piles; inspects dredging operations of various types, including the making of fill; inspects the installation of mechanical and electrical equipment; inspects the installation of plastic wraps on wood piles;

Answers public complaints about inconvenience caused by various projects; explains to merchants and property owners the purpose, expected duration, and probable benefits of the job; takes actions necessary to ensure the protection of private property;

Previews areas affected by pending projects to note conditions prior to construction; photographs project progress; ensures that contractors have obtained necessary change orders when unexpected changes necessitate field changes in plans; makes final inspections of completed projects; prepares detailed job records of construction progress and material reports including measured quantities constructed, and other reports and records; may perform soil compaction tests; may assign work to other Construction Inspectors; may inspect force account construction work; may inspect the construction under contract of pumping plants; assigned portions of public buildings of structural steel or reinforced concrete or masonry, landscaped areas, and street light and traffic signal installations; may enforce erosion control measures in hillside areas; recommends progress payments and assessment of contract time; and approves the utilization of contractor's personnel and equipment on cost plus contract work; and may occasionally be assigned to other duties for training purposes or to meet technological changes or emergencies.

Qualifications: A good knowledge of the methods, practices, and materials used in constructing public works type projects, such as streets, storm drains, sanitary sewers, wharves, water mains, buildings and other public utility facilities, and reinforced concrete and masonry structures; a good knowledge of proportioning, mixing, place and finishing of concrete and bituminous materials; a good knowledge of the Construction Safety Orders of the California Division of Occupational Safety and Health Administration; a working knowledge of the laws, ordinances, standard plans and specifications, and administrative regulations governing public works construction for the City of Los Angeles; a working knowledge of survey practices in construction work, including the use of line, slope, and grade stakes; a working knowledge of concrete forming, falsework, and timbering; a general knowledge of the methods of testing construction materials and interpreting the test results; a general knowledge of the types and uses of construction equipment

used in public works type construction; a general knowledge of the types and uses of pipe; a general knowledge of the principles of engineering design and specification writing; a general knowledge of soil mechanics as applied to foundations, embankments, fills, and excavations; the ability to communicate effectively and concisely in the

English language; the ability to read, interpret, and explain plans, specifications, and regulations of moderate difficulty; the ability to relate lines and grades indicated by survey stakes to the work being done; the ability to write clear, concise reports and keep records of construction work in progress; the ability to read and comprehend technical written material; the ability to read and interpret charts and graphs; the ability to make decisions and work effectively without close supervision; and the ability to deal tactfully and effectively with contractors, construction workers, and the public, and the ability to assess complex construction operations and to set priorities for taking timely action to gain compliance with construction and safety requirements.

Three years of full-time paid experience in inspection or in line supervision of the construction of public works type projects such as streets, storm drains, sanitary sewers, wharves, water mains, buildings and facilities, or reinforced concrete or structural steel or masonry structures; or four years of full-time paid experience as a member of a survey crew in construction surveying or at the journey-level in a construction trade in the construction of public works type projects such as streets, storm drains, sanitary sewers, wharves, water mains, buildings and facilities, structural steel or reinforced concrete or masonry structures; or one year of full-time paid experience as an Assistant inspector IV with the City of Los Angeles, Bureau of Contract Administration; or four years of full-time paid sub-professional engineering experience of which at least 50% of the time is at the construction site in materials testing including inspection of materials for conformance to standard public works specifications, or providing technical information regarding plans, blueprints or survey information to construction inspectors, contractors and construction crews is required for Construction Inspector.

Completion of a recognized four-year apprenticeship in a construction trade may be substituted for two years of journey-level experience in inspection or in line supervision of the construction of public works type projects. Education at a recognized college or university may be substituted for a maximum of two years of full-time paid experience in inspection, line supervision of the construction of public works type projects, a member of a survey crew in construction surveying, or at the journey-level in a construction trade in the construction of public works type projects.

Licenses: A valid California driver's license and a good driving record is required. A valid certificate as a Registered Deputy Building Inspector issued by the Los Angeles Department of Building and Safety may be required prior to appointment.

Physical Requirements: Strength to perform average lifting up to 15 pounds and occasionally over 25 pounds; body agility and equilibrium involved in activities such as climbing and balancing; back and leg coordination involved in activities such as stooping, kneeling, ladder climbing, and crouching; good speaking and hearing ability; and good eyesight.

Persons with medical limitations may, with reasonable accommodations, be capable of performing the duties of the positions in this class. Such determination must be made on an individual basis in light of the person's limitations, the requirements of the position, and the appointing authority's ability to effect reasonable accommodations to the person's limitations.

As provided in Civil Service Commission Rule 2.5 and Section 4.55 of the Administrative Code, this specification is descriptive, explanatory and not restrictive. It is not intended to declare what the duties and responsibilities of any position shall be.