



THE METROPOLITAN WATER DISTRICT
OF SOUTHERN CALIFORNIA

CONSTRUCTION INSPECTOR IV

Group-Section: Business Technology Group	FLSA Status: Non-Exempt Bargaining Unit: AFSCME	Salary Grade:: 53 Job #: XA04A
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JOB SUMMARY

This is the advanced journey level position performing Construction Inspector IV job duties.

DISTINGUISHING CHARACTERISTICS

Positions at this level are recognized as a technical specialist in the areas of: On site construction contract administration; chief inspector; or electrical or mechanical testing; start-up; commissioning; troubleshooting of extensive and highly complex systems. Individuals may be expected to utilize initiative and resourcefulness in deviating from traditional methods or researching trends and patterns to develop new methods, criteria, or proposed new policies. Decisions regarding what needs to be done includes interpreting data, planning of the work, or refining the methods and techniques to be used. The work involves formulating and executing strategies for resolving project issues; assessing program effectiveness; or analyzing a variety of unusual conditions, problems, or questions. The work product or service may affect activities, or the operation of other organizations.

OVERSIGHT

Supervision Received: The supervisor sets the overall objectives and resources available. The employee and supervisor, in consultation, develop the deadlines, projects, and work to be done. At this level, the employee, having developed expertise in the line of work, is responsible for planning and carrying out the assignment; resolving conflicts that arise; coordinating the work with others as necessary; and interpreting policy on own initiative in terms of established objectives. In some assignments, the employee also determines the approach to be taken and the methodology to be used. The employee keeps the supervisor informed of progress, potentially controversial matters, or far-reaching implications. Completed work is reviewed from an overall standpoint in terms of feasibility, compatibility with other work, or effectiveness in meeting requirements or expected results.

Supervision Given: Acts as a lead. Coordinates and reviews work assignments of employees performing the same general work as the lead on a day-to-day basis. Responsibilities involve solving problems and providing instructions on work procedures.

JOB DUTIES

1. Performs as a resident, chief inspector or technical lead on public works construction projects.
2. Administer construction contracts and oversee construction to ensure adherence to contract plans and specifications. Enforces compliance of contract through direct action and delegation of responsibility.
3. Leads acceptance testing, equipment testing and systems start-up, commissioning and debugging of mechanical or electrical systems, including testing, troubleshooting, start-up and commissioning of plant processes and systems.

4. Leads and performs inspections, fabrication inspections, and materials testing on construction projects in accordance with contract plans and specifications.
5. Leads and performs constructability reviews of plans and specifications, makes recommendations relating to revising specifications for future contracts, to accepting substitutions or alterations under current contracts, and to enforcing contract requirements
6. Leads and performs engineering materials tests, studies and investigations including leading and performing forensic and engineering evaluations.
7. Performs office engineering duties, including administering professional services agreements, drafting correspondence, preparing estimates for progress payments and contract change orders and review of construction schedules.
8. Performs other related Construction Inspector job duties.

EMPLOYMENT STANDARDS

MINIMUM QUALIFICATIONS

Education and Experience: High school diploma or general education development test (GED) and ten years of increasingly responsible, relevant journey level experience in one or more crafts, or construction materials sampling and testing and per applicable codes and standards, or fabrication inspection and testing per applicable codes and standards, or two years experience at the Construction Inspector III level. General construction experience may be substituted for a particular craft.

Of the ten years experience, five years shall have been with increasingly responsible, relevant experience as a public works construction manager or superintendent, or five years experience as a Resident for moderate to large public works construction projects; or ten years shall have been with experience as a technical specialist in the field of electrical or mechanical systems testing, troubleshooting, debugging and start-up; or ten years experience as a technical specialist in the field of materials sampling and testing, or fabrication inspection and testing.

Required Knowledge of: Principles, practices, means, and methods of construction contract administration and construction management, construction quality assurance, estimating, negotiating and reporting; construction scheduling practices; engineering calculations; water treatment and conveyance systems; basic environmental, construction surveying, and health and safety requirements related to construction projects; construction safety practices. Areas of knowledge shall also include one or more of the following disciplines: Civil/Structural (earthwork operations, underground utility construction, reinforced concrete, structural steel construction, masonry, construction materials sampling and testing); Electrical (electrical equipment and materials installation and testing, troubleshooting and commissioning); or Mechanical (mechanical equipment installation and testing, welding, pipefitting, and fabrication, testing, troubleshooting and commissioning); applicable federal, state and local laws, codes and regulations; and current office technology and equipment.

Job Title: Construction Inspector IV

Job Code: XA04A

Adopted: 03/11/13

Revised: 09/10/17

Supercedes:

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Required Skills and Abilities to: Perform engineering calculations; use of spreadsheets; use of construction scheduling software; apply safe work practices; read and understand contract specifications, and drawings; analyze; problem solve; lead and train; plan and organize work; manage projects; negotiate; use independent judgment and exercise discretion; problem solve; prioritize and multi-task; communicate clearly and concisely, both verbally and in writing; establish and maintain effective working relationships with those contacted in the course of work; work independently and in a team environment; lead and train; and operate current office equipment including computers and supporting applications.

CERTIFICATIONS, LICENSES, AND REGISTRATION REQUIREMENTS

Employees in this position may be required to obtain and maintain the following certifications, licensing and registrations:

Certificates

- American Welding Society – Certified Welding Inspector
- American Concrete Institute – Concrete Field Testing Technician Grade I
- American Concrete Institute – Concrete Strength Testing Technician
- American Concrete Institute – Concrete Aggregate Testing Technician Level I

Licenses

- Valid California Class C Driver License that allows you to drive in the course of your employment

Registrations

- None

PHYSICAL DEMANDS, WORK ENVIRONMENT AND VISION REQUIREMENTS

The physical demands and work environment characteristics described here are representative of those that must be met or may be encountered by an employee to successfully perform the job duties of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the job duties.

Physical Demands: The work requires some physical exertion such as long periods of standing; walking over rough, uneven, or rocky surfaces; climbing, twisting, recurring bending, crouching, stooping, stretching, reaching, or similar activities; recurring lifting of moderately heavy items such as testing equipment, concrete test cylinders, personal computers, record boxes etc.. The work may require specific, but common, physical characteristics and abilities such as above-average agility and dexterity.

Work Environment: The work environment involves high risks with exposure to potentially dangerous situations or unusual environmental stress that require a range of safety and other precautions, e.g., irritant chemicals, electrically energized equipment including high voltage systems, noise, dust, working at great heights, working under extreme outdoor weather conditions, or similar situations where conditions cannot be controlled.

Vision Requirements: Color vision (ability to identify and distinguish colors) for Electrical inspectors.