



JOB TITLE:	<b>ASSOCIATE STEEL INSPECTOR</b>	DIVISION:	<b>DISTRICT – ENGINEERING</b>
REPORTS TO:	<b>DIRECTING CIVIL ENGINEER</b>	EEO CATEGORY:	<b>02 – PROFESSIONAL</b>
FLSA:	<b>NON-EXEMPT</b>	SAFETY-SENSITIVE:	<b>YES (Public Safety)</b>
CLASSIFICATION:	<b>REPRESENTED</b>	LOCATION:	<b>SAN FRANCISCO</b>

*Class specifications are intended to present a descriptive list of the range of duties performed by employees in the class. Specifications are not intended to reflect all duties performed within the job.*

### **Position Summary**

Under general direction of Civil Engineers and Senior Steel Inspectors, the Associate Steel Inspector will perform the more difficult and complex tasks in the quality assurance inspection and testing of fabrication, erection and coating of structural steel bridges and other related materials for compliance with the contract documents, perform field inspections to evaluate the condition of steel members on the Golden Gate Bridge and other duties as required.

### **Essential Responsibilities**

- Inspection and oversight of welding, bolting, riveting, painting and non-destructive testing during field and shop fabrication, erection, and maintenance of the steel bridge and roadway materials
- Take quality assurance samples and perform quality assurance inspections and tests
- Make recommendations for acceptance and rejection of work
- Write detailed reports of inspections, tests and production rates for observed work
- Maintain records and issue reports of inspection and tests as required
- Make recommendations in material specifications
- Perform oversight and review of quality assurance operations for contractors
- Attend conferences and meetings regarding quality assurance
- Knows and follows the safety and health rules and safe working practices applicable to his or her job
- Ensures that employees under his or her supervision follow established safe work practices and obey all safety rules
- Establishes and maintains effective working relationships with District employees, customers, vendors and all others contacted during the course of work using principles of excellent customer service
- Performs additional related duties as assigned
- Regular and reliable performance and attendance is required



## Required Knowledge, Skills and Abilities

### Working knowledge of:

- Caltrans, ASTM and AASHTO specifications, AWS D1.5 Bridge Welding Code, and AWS D1.1 Structural Welding Code
- Performing or monitoring of visual and non-destructive testing as specified by the AWS D1.5 Bridge Welding Code
- Proficiency in the use of weld, bolt, and paint inspection tools including; weld gauges, NDT equipment, micrometers, paint thickness meters, and bolt tensioning and rotational capacity devices
- Inspection and testing of high strength bolted joints and paint systems used on steel bridges
- Occupational health and safety rules and working practices applicable to this position

### Ability to:

- Review and interpret structural steel plans, working drawings, and technical specifications
- Write concise, accurate and timely reports of inspections and tests
- Perform duties in a noisy, multi-faceted, large construction project environment
- Perform basic mathematics used in the testing of steel products and welding procedure specifications
- Understand and be understood effectively using the English language
- Use personal computers and software applicable to the work
- Developing and maintaining effective, cooperative and professional relationships with all encountered in the course of the work
- Follow the safety and health rules and safe working practices applicable to the job

## Minimum Qualifications

### **Education and/or Experience:**

#### **A combination of college level training and position related experience equivalent to:**

- A minimum of six years inspection experience in the fabrication and erection of welded structural steel members and other components used in the construction of highway bridges and other related structures
- Possession of a current Certified Welding Inspector Certification per the most recent American Welding Society QC1 Document
- Certifiable to NDT Level II in Ultrasonic, Magnetic Particle, and Dye Penetrant inspection per latest edition of ASNT, SNT-TC-1A guidelines
- The equivalent of an Associate Degree in Welding Technology, Nondestructive Testing, Metallurgy or a related field may be substituted for two of the six years of required work experience
- NACE certification and experience in coatings desirable but not required



**Required License:**

- Must possess and maintain a current and satisfactory driving record. No reckless driving and DUI within the last 7 years. No more than 2 moving violations within the last 3 years. Operates District vehicles on a regular basis.

**Physical Requirement:**

Climb ladders, scaffolds, catwalks, bridge members and utilize other devices to access and inspect construction work on the Golden Gate Bridge and other District owned structures and buildings. Stand on one's feet at construction site locations for extended periods of time. Carry test inspection and survey equipment that may weigh up to 50 pounds. Occasionally crawl through pipes, trenches and other excavations. Work from elevated platforms and heights. Work outside in extreme weather conditions. Work night shifts for extended periods of time. Work at offsite fabrication facilities. Must be able to wear a respirator. Travel to and work at out of state fabrication facilities for extended periods of time.

This position may have a potential for or actual exposure to lead. Pursuant to OSHA regulations, District employees are not exposed to lead at concentrations greater than 10 micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ) of air averaged over an 8-hour period.