



WAYSIDE INSPECTOR

JC: TA135
PB: 311
FLSA: Non-Exempt

BU: 01 (SEIU)
Created: October 1987
Revised: July 11, 2007

*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.*

DEFINITION

Under general supervision, performs inspection of electronic train control, automatic fare collection, computer group and communications equipment and incoming electronic parts and materials; performs vendor audits and source inspections; prepares reports and maintains records of wayside inspections performed; performs related work as assigned.

CLASS CHARACTERISTICS

This classification performs inspection on a variety of electronics and related systems and equipment to ensure a high level of quality and safety in District, and vendor installation, maintenance, repair, modification, and manufacturing, focusing on electronic/ electrical inspections and associated control systems. Incumbents may receive day-to-day scheduling and work assignments from supervisory personnel within the maintenance function, but receive ongoing administrative and technical supervision from the Systems Maintenance Division. This class is distinguished from Vehicle Inspector in that the inspection duties of the latter are related specifically to the inspection of wayside electronic/electrical components and systems.

REPORTS TO

This position reports to the Superintendent of Systems Maintenance.

EXAMPLES OF DUTIES – *Duties may include, but are not limited to, the following:*

1. Inspects the project installation and repair of various train control, automatic fare collection, SCADA, Data Network, Radio, Telecom, Copper and Fiber Optic Cable, CCTV, Carrier_Systems and other electronic equipment.
2. Performs inspection of P.M.'s by technicians in Comm/AFC/TC/ and Computer Group.
3. Monitors contractor performance of various testing to confirm validity of procedures, limits established, and documentation of parts and equipment tested.
4. Tests and inspects wayside control and other parts and equipment received for adherence to

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specifications including mechanical tolerances, electrical and electronic current stability and values and related operational characteristics.

5. Samples and tests AFC ticket stock to verify all product deliveries meet or exceed specifications; performs extensive testing on AFC ticket samples to pre-qualify new ticket suppliers.
6. Evaluates drawings and specifications to verify proper documentation and appropriate parts and materials.
7. Travels to vendor sites for on-site inspections; performs vendor audits and source inspections, including evaluation of quality control procedures, inspecting equipment and tooling, evaluating their calibration program, inspecting manufacturer's environment for quality controls and monitoring production to ensure adherence to specified processes, limits, and qualifications.
8. Prepares a variety of documentation, including reports and checklists of inspections performed, results and follow-up required; discusses inspection results and follow-up required with supervisor, vendors and suppliers.
9. Operates a variety of inspection and measuring equipment including bore, depth and thickness gauges, micrometers, calipers and protractors, voltage, amperage and ohmmeters, cable tester, network analyzer, T1 tester, OTDR, Laptops, and various specialized testing tools.
10. Maintains and tracks calibration status of all department measuring and test equipment.
11. Accesses wayside and obtains simple approval and conduct inspection work.
12. Assists in developing standards and procedures for the quality assurance function.

QUALIFICATIONS

Knowledge of:

- Methods and techniques of quality assurance inspection, testing and measurement
- Methods and techniques of vendor source inspections
- Basic electrical, electronic and electro-mechanical principles and practices
- Use calibration and routine maintenance of a wide variety of testing and measurement tools and equipment
- Standards, codes and specifications used in quality assurance such as ISO9000, NEC, ANSI, and NFPA
- Safe working practices as applied to the inspection of various electronic/electrical components and system

Skill in:

- Inspecting, testing and measuring parts, equipment, components and systems for adherence to specifications and requirements
- Conducting vendor source inspections
- Determining further repairs or process corrections required to bring work up to quality requirements. Using, checking calibration and performing routine maintenance of a wide variety of testing and measurement tools and equipment

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- Preparing reports and records of inspection performed, results and follow-up required
- Establishing and maintaining effective working relationships with those contacted in the course of the work
- Reading and interpreting drawings, specifications and documentation to assess and document completeness and adherence to requirements
- Using sound independent judgment within established guidelines

MINIMUM QUALIFICATIONS

Education:

Possession of a high school diploma, GED or recognized equivalent.

Experience:

The equivalent of 2 (two) years of full-time verifiable journey level experience in the maintenance and repair of electronic components and systems, including communications and control equipment, and one (1) year of (full-time equivalent) verifiable quality assurance inspection experience of electronic components and systems.

Other Requirements:

Must possess a valid California driver's license and have a satisfactory driving record.

Must be physically able to walk, climb, stoop and crawl to inspect equipment.

Must be willing to travel within the District and to vendor sites.

Must be willing to occasionally work off shift.

WORKING CONDITIONS

Environmental Conditions:

Office environment; exposure to computer screens, field environment; exposure to heat, cold, electrical energy, and inclement weather conditions; work or inspect in confined spaces.

Physical Conditions:

Requires maintaining physical condition necessary for walking, climbing, stooping and crawling for prolonged periods of time.

BART EEO-1 Job Group: 5000 – Skilled Workers
Census Code: 8740 – Inspctrs/Tsters/Sortrs/Smplrs
Safety Sensitive: Yes