



Job Description

Position: LRT Maintenance Technician
Department: Light Rail Operations
Reports To: LRT Systems Supervisor

Job Summary:

LRT Maintenance Technicians perform a variety of assignments related to overhead lines, supporting structures, substations, signal & communications, electrical/mechanical facility amenities and light rail vehicles. Employees working this position must possess a Class "A" VA Driver's License. LRT Maintenance Technicians use standard shop and lineman tools, power tools, chain saws, diagnostic and test equipment, forklift trucks, company vehicles, special work vehicles with lifting platforms and buckets, etc. This includes installing, troubleshooting, repairing, maintaining and performing scheduled maintenance on the light rail vehicles and subsystems, traction power substations and related components with the inspection, maintenance, repair, installation and alteration of all Light Rail Transit (LRT) systems and amenities while ensuring the safe and reliable operation of the LRT system.

Essential Job Functions:

- Install, maintain, repair and replace overhead lines, supporting structures, signal & communications, and facility electrical/mechanical amenities along entire alignment, including but not limited to area lighting, rail switch machines, high/low voltage switch gear, HVAC, plumbing, and fire detection/prevention systems.
- Performs LRT systems maintenance in assessing factors and conditions affecting maintenance/service activities and responding appropriately when these change and keep all interested and involved parties informed of matters requiring attention.
- Performs scheduled and reactive maintenance on Light Rail Vehicles and associated subsystems. Completes paper and computerized documentation in accordance with department policy and procedures. Responsible for high operating and safety performance of light rail vehicles.
- Ability to quickly troubleshoot, repair and program carborne and localized programmable logic controllers, network interfaces and display units.
- Adheres to the highest quality standards while meeting original equipment manufacturer's requirement in the performance of all job responsibilities.
- Follow all safety procedures and standard practices to ensure maintenance activities precede safely and efficiently.
- Performs inspections of LRT systems including but not limited to overhead contact wire systems, traction power substations, building electrical/mechanical, signal, communications and other elements related to maintaining a safe operating light rail system. Submits verbal and written reports of inspection findings to the LRT Systems Supervisor. Recommends and executes immediate maintenance remedial action in maintaining safe, efficient and reliable LRT service.
- Communicates effectively with the LRT Systems Supervisor the results of LRT systems maintenance activities, and other relative information and to other Hampton Roads Transit personnel as necessary.
- Monitors, identifies and corrects imminent safety hazards for Hampton Roads Transit total LRT rail system. Investigates, analyzes, and makes recommendations for correcting potential safety problems.
- Coordinate with contracted efforts by explaining problems and assisting contractors and Hampton Roads Transit personnel in such activities. Assist with review, and acceptance/

rejection of work performance by contractors. Communicates progress of all LRT systems work activities.

- Assist in training other Hampton Roads Transit employees in the safe and efficient performance of LRT system maintenance and proper operation of required rail system maintenance equipment/tooling.
- Assist rail operations when needed through manually operating substation, signal communications and other LRT support equipment/systems when needed to facilitate safe, efficient and reliable LRT service for the riding public.
- Maintain the cleanliness of work area, substation, signal, communications and electro/mechanical facilities interior and the immediate exterior areas.
- Respond to emergency service needs.
- Operate On Track Equipment and other maintenance equipment as required to perform maintenance activities
- Manage records created and received in compliance with the Hampton Roads Transit Records Management Policy and Procedures.
- Responsible for maintaining a general awareness of HRT's EMS
- Responsible for handling all related job responsibilities in accordance to HRT's Environmental Policy, relevant EMS Standard Operating Procedures, and Emergency Management Plan
- Other duties as assigned.

Required Knowledge, Abilities and Skills Essential to Job Functions:

- Written and verbal communication and presentation skills. Must be able interpret and carry out verbal and written assignments.
- Problem analysis and resolution skills.
- Ability to perform maintenance repair, troubleshooting, rebuilds and overhaul of LRT systems equipment and materials.
- Ability to analyze malfunctions in electronic, microcomputer, mechanical, pneumatic, hydraulic, electric equipment and determines repair and performs system fabrication and assembly tasks.
- Knowledge of technical math skills.
- Ability to maintain accurate records and correctly use test equipment (voltmeter, ammeter, ohmmeter, oscilloscope, chart recorders, computer bases instruments, meggar, wire tracer and other equipment as required).
- Knowledge of hardware/software configuration/troubleshooting, and networking protocols and configuration is essential.
- Work experience and knowledge in demonstrating the ability to diagnosis, repair, preventive maintenance and service in one or more of the following systems, Light Rail Vehicles, LRT traction power including Overhead Catenary System, Substations, Signals, and facilities power distribution/building maintenance components.
- Ability to establish and maintain good working relationships.
- Ability to work effectively in a team environment.
- Ability to manage multiple responsibilities/priorities simultaneously.
- Must meet established Hampton Roads Transit goals and work standards.
- Knowledge of and experience with electric/mechanical maintenance safety practices as they pertain to rail transportation systems.
- Knowledge of pneumatic, hydraulic systems, mechanical systems, electric, electronic and microprocessor technologies, testing and inspection methods/tools for maintenance and inspections.

- Keep updated with current laws, regulations, and developments in areas related to maintenance operations and maintenance.
- Knowledge of methods and procedures used to repair and maintain high and low voltage electrical switch-gear equipment
- Knowledge of theory and principles of traction power, substation, signal, facility power distribution electrical and electronic equipment and circuits.
- Knowledge of principles and practices of electrical installation.
- Knowledge of laws, ordinances, and regulations covering electrical installation, maintenance safety and accident prevention.
- Ability to read and interpret construction plans, specifications, electronic schematics, electrical and electromechanical schematics, ladder diagrams and diagrams.

Required Software Knowledge and Skills essential to Job Functions:

Proficiency in using computer systems and the listed software applications associated with performance of assigned work is essential. Basic problem solving skills associated with software applications used is expected. Software usage relevant to job duties will be evaluated.

Software applications:

Email, Internet, Microsoft, Microsoft Windows Word, Excel, PowerPoint, and ability to learn the SPEAR maintenance Management System

Qualifications:

Training/Education and Required Experience:

- Associates Degree/ Vocational Training certificate in the Electronic or Electrical technical field with a Journeymen electrician license and two (2) years of directly related experience. OR
- High School Diploma or GED Six (6) years of directly related trade experience. Journeyman/Lineman electrical trade experience or Six (6) years rail vehicle technician experience within the past three (3) years.
- A combination of training, education, and experience that is equivalent to the criterion listed above and satisfies the knowledge, skills, and abilities requirements will also be considered.
- Pass HRT entrance exam(s) with a minimum 85% score.

License:

Virginia Class B Drivers License or ability to obtain within 3 months of hire.

Special Requirements:

- Ability to pass physical examination, Rail Operations Rule Book and DOT physical agility examinations and successfully complete Rail Track Equipment Training/Certification Program and rail vehicle equipment training. Must complete training and demonstrate proficiency in light rail vehicle operation.
- Must meet ongoing educational, training and DOT requirements and maintain On Track Equipment Certification

FLSA Status:

Physical Demands:

The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

- Ability to perform heavy manual labor, frequently lifting up to 50 pounds and occasionally up to 100 pounds with the assistance of applicable equipment or other employees.
- Ability to meet color and peripheral vision requirements.
- Must be able to work from heights with the assistance of proper safety equipment
- Ability to work in all outdoor weather conditions.
- Risk of electrical shock
- Ability to meet hearing requirements of 0-20db

Unusual Demands:

The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions. Work involves meeting multiple demands on a timely basis. Duties will require working weekends and Holidays.

This job description summarizes the essential duties required for this position but in no way is inclusive of all duties. Other related duties may be assigned as needed by department head or supervisor. All changes must be requested through the Organizational Development or Human Resources Department.