

Hudson Bay Railway Job Description

TITLE: Locomotive Electrician

LOCATION: The Pas, MB

REPORTS TO: General Foreman

SALARY RANGE: Commensurate with qualifications and experience.

General Summary:

Responsible for the efficient inspection, troubleshooting, preventive maintenance and installation of locomotive electrical wiring and equipment such as motors, generators, lighting and other electrical components to ensure conformance with FRA, company, and customer specifications. This is accomplished by performing the following duties or ability to be trained to accomplish:

Essential Job Duties and Responsibilities include the following. Other duties may be assigned, as requested or required.

1. Under the direction of the immediate supervisor, perform required inspections, troubleshooting and preventive maintenance to ensure that locomotive electrical components, electrical wiring and electrical equipment conform to specifications and operate properly within design limits and intent. Must have knowledge of GP7 and SD 35 locomotives.
2. Completes inspection and repair reports according to company and FRA specifications and guidelines.
3. Following general safety rules, performs installation of locomotive electrical components, electrical wiring and electrical equipment to ensure proper operation and compliance with required federal and company specifications on GP7 and SD 35 units.
4. Able to, or able to learn to read with accuracy locomotive schematics, service bulletins, maintenance instructions and other craft related documentation for a GP7 and SD 35 locomotive.
5. Tests, installs and repairs circuits, connections and electrical equipment, including but not limited to: brushes replacement, commutator repair, panel lighting, circuit breakers, regulator repair / change to ensure all function and equipment conform to required specifications for a GP7 and SD 35 unit.
6. Regularly examines parts such as control points, relays and wiring and adjusts or replaces defective parts as needed.
7. Operational qualification of relays, switches and control devices to verify conformance to specifications on both a GP7 and SD 35 unit. Evaluate control systems for service using a variety of test equipment and procedures i.e.: meters, insulation break-down test devices and live circuit measurements.
8. Able to read and understand FRA and company rules, specifications and guidelines. Able to legibly document items of non-compliance.
9. Analyzes and able to correct faults related to inspection, troubleshooting, preventive maintenance and installation of locomotive electrical wiring and equipment, such as traction motors, generators, lighting, power generation, distribution, control and other electrical components and systems on a GP7 and SD 35 unit.
10. Assists in all other repairs and maintenance as required by immediate supervisor.

Education/Experience

High school education or general education development (GED); preferred 1-3 years of job-related work experience; or equivalent combination of education and experience. Perceived aptitude in the Electrical field and demonstrating a desire to learn required.

Certificates and Licenses:

Valid State Driver's License

Knowledge, Skills, and Abilities:

1. Knowledge and skills in locomotive electrical repair and maintenance helpful.
2. Knowledge of and skill in reading and interpreting blueprints, schematics and wiring diagrams.
3. Knowledge and skill in using various electrical testing equipment such as insulation test devices, voltmeters, ohm-meters helpful.
4. Knowledge and skill in recognizing and use of various hand tools.
5. Knowledge and skill in using various power tools, including drills, grinders, and air impact wrenches.
6. Demonstrate an attention to detail and coordinate various activities simultaneously.
7. Ability to operate various industrial equipment including forklifts helpful.
8. Ability to comply with instructions furnished in written, oral and schedule form.
9. Ability to read and comprehend published rules, procedure and manuals, inspection checklists, government regulations, operating and maintenance instructions, memos and other work-related information.
10. Ability to effectively communicate with co-workers, supervisors and business associates in a clear, concise, courteous and professional manner.
11. Ability to write legibly.

Physical Demands:

The physical demands described here are representative of those that must be met by an employee to successfully perform essential functions of the job.

Must have clarity of vision at 20 inches or less, 100% of time.

Must be able to see well enough to read diagrams, reports, levels on test equipment, and maintenance checklists; and to work on small wiring, electrical components 100% of time.

Must be able to work in tight, confined spaces 100% of time.

Must be able to manually push, pull and/or lift up to 75 pounds 5% of time.

Must be able to talk and hear well enough to communicate with co-workers, supervisors, and others within the company 100% of time.

Must be able to walk 100% of time.

Must be able to climb and balance to mount locomotive by climbing steps 100% of time.

Must be able to climb to a vertical surface up to sixteen (16) feet 50% of time.

Must be able to bend, twist, and crawl in open or confined spaces 100% of time.

Must be able to reach with hands and arms 100% of time.

Physical Dimensions:

The employee is required to exert up to 150 pounds of force occasionally; and/or up to 75 pounds of force frequently; and or up to 50 pounds of force regularly.

Work Environment:

The work environment characteristics described here are representative of those an employee encounters while performing the essential functions of this job.

While performing the essential duties of this job, the employee may be regularly exposed to loud noise; moving mechanical parts; diesel, grease and oil smells; weather elements and conditions; and risk of electrical shock. The employee may be frequently exposed to heat from equipment; small enclosed spaces. The employee is occasionally exposed to high voltage while performing tests.

Contact Information:

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