

Position Description



Position Title	Principal Electrical Engineer
Position No	00040073
Delegation Level	006
Job Designation	Engineer Electrical
Organisational Unit	Plant Engineering SEQ Assets
Work Centre	Brisbane
Position Type	Permanent
Rail Safety Worker	Yes
Medical Fitness Standard	NHS Cat 3 ATTP
Performance Plan Type	Lead Others
Shiftworker	No
Classification (Range)	PT5 .1 - PT5 .4
Pay Scale Type	ASPT
Reports to Position	Manager Plant Engineering

QUEENSLAND RAIL VALUES:

- 1 Queensland Rail - We do better together
- Treat others with respect - We appreciate everyone's contributions and differences
- Empower our people - We have confidence in our people
- Act Safely - We work safe, to go home safe
- Make a positive difference - We learn from today, to improve tomorrow

Position Purpose

Effectively manage the electrical design and standards for mobile plant and equipment in Network to ensure compliance with Queensland's electrical safety legislation. Provide specialist electrical engineering and technical support services for the specification, design, upgrade, acquisition and maintenance of specialised track maintenance plant. The position leads a team of electrical specialists, engineers focused on improved safety and performance.

Position Responsibilities

1. Provide high level strategic direction on design, acquisition, operation, maintenance, modification and electrical upgrade issues relating track vehicle electrical and control systems.
2. Provide leadership of rollingstock electrical issues in a dynamic and changing rail infrastructure environment through effective strategy formulation, engineering excellence and the development and implementation of engineering solutions, processes and programs to continuously improve the track vehicle fleet availability and reliability in a timely manner.
3. Provide and manage the request for expert advice and assistance with technical assurance and the technical and operational issues associated with electrical systems and the design of relevant modifications for improvement.
4. Lead an electrical engineering team and provide expert technical advice, technical assurance and support for the design, modification, maintenance and operation of Queensland Rail's track vehicle fleet.
5. Manage the development of scopes of work, specifications, instructions, design drawings and any other documents to the required standards in relation to track vehicle design, maintenance and reliability.



6. Investigate new technologies and develop new systems and procedures to enhance the safety and reliability of the Queensland Rail rollingstock fleet.
7. Mentor and coach engineers to maximise team performance by providing performance feedback, advice, encouragement, training and professional development.

Additional Factors

The appointee will be required to :-

- Comply with Queensland Rail's Code of Conduct;
- Observe all legal and safety obligations of the organisation;
- Travel interstate and intrastate;
- Attend additional training.

What is the key selection criteria

1. Extensive knowledge of electrical and electronic control systems design, performance, operation and maintenance used in plant applications and the standards that apply to these systems.
2. Extensive knowledge of the design and operation of control systems used to control hydraulically powered mechanical components used on track vehicles
3. High level of skill in the development and implementation of control systems, and LV / ELV electrical systems used in plant applications, including track vehicles.
4. High level of skill in developing and continuously improving electrical systems, strategies, scopes of work and modifications to improve rollingstock performance, reliability, safety and cost.
5. High level of skill in formulating specifications and introducing new technologies for the purchase of new equipment and maintenance of existing equipment.
6. High level of communication, consultation, negotiation and engagement skills with a range of internal and external stakeholders and suppliers.
7. High level of skill in leading, mentoring and training personnel in the theory and maintenance of electrical equipment.
8. Knowledge of and willingness to commit to and work within Queensland Rail's Values and Behaviours.

Pre-employment Checks:

Not Applicable

Pre-employment Qualifications:

What qualifications do I need to hold prior to applying for the position?:

- 20300281 Nat Drv Lic C (Qld A < 09.04.96)
- 20100204 Prof Eng (Qld) Registered
- 20100220 Bach Eng - Elec

Mandatory Qualifications (If not already held, I will gain these when in position)

- 40007588 Wunya Induction
- 30000908 Safely Access the Rail Corridor (QNRP)
- 40006426 Apply Fatigue Management Strategies
- 40001627 Building Emergency Procedures
- 40010410 Safety Comes First Always Workshop
- 40009729 Delivering a Pre-Start Briefing Network
- 40008876 Working in the Electrified Territory

Position Description



40008657 NHS Cat 3 ATTP

Enterprise Qualifications (If not already held, I will gain these when in position)

40009601 Code of Conduct Refresher

40013480 Fraud Awareness Induction

Health, Safety and Environment Responsibilities

Comply with the overarching document called Health, Safety and Environment Responsibilities MD-11-6843 located in the Safety and Environment Management System.

Personal Protective Equipment needs:

Head and Face protection

Eye Protection

Hearing Protection

Hand Protection

High Visibility Clothing

Safety Footwear

Sunscreen SPF 15+

Safety Publications

QR Electrification Safety Booklet

QR Weekly Notice

Your Health (Newsletter)

C.E.O.'s Safety Statement

C.E.O.'s General Safety Rules

Please Note:

Queensland Rail has a random alcohol and other drug testing program.

Testing can occur anywhere, at any time, on any day.