



Job Description Form

Our Purpose

To provide safe, customer-focused, integrated and efficient transport services.

Position Title

Senior Signal Systems Engineer - Wayside Signalling

Level

6

Position Number

37632, 37633, 37634
(Nominated)

Division/Directorate

PTA Project Delivery

Branch/Section

Effective Date

January 2026

Health Task Risk Assessment Category

3

Reporting relationships

Superordinate: Delivery Manager, Level 8

Subordinates: No Direct Reports

Key role of this position

Provides engineering assurance and technical expertise for the design and delivery of Wayside Signalling system, as part of Communication Based Train Control (CBTC) Signalling system associated with the Public Transport Authority's (PTA) High Capacity Signalling (HCS) project. The role will ensure that all works related to the CBTC implementation are compliant, reliable and effectively integrated into the PTA's operational network.

Core duties and responsibilities

Management and Leadership

- Undertakes the project engineering responsibility for the delivery of Wayside Signalling system including managing Wayside Signalling system interfaces with the other operational rail systems.
- Develop engineering solutions in collaboration with the stakeholders, including PTA's delivery contractors, for the delivery of the Wayside Signalling system, as part of the CBTC system.
- Facilitates clear and timely communication with internal and external stakeholders aligned with the project goals and technical requirements.
- Provides solutions designed to minimise the impact of construction, testing and commissioning activities on railway operations.
- Contributes to developing a positive safety culture, providing ideas and suggestions for continuous improvement in workplace safety ensuring the works carried out comply with PTA requirements and other legislative requirements.
- Provides support and contributes to general business matters relating to the project, such as risk management, policy and procedure development, performance reporting and continuous improvements.

Engineering

- Performs the Project Engineering activities in compliance with the PTA's Engineering Management Framework for the delivery of Wayside Signalling system, interfaces, and associated infrastructure as part of the CBTC Signalling system.

- Provides relevant technical expertise and advice for the development of designs and engineering assurance documents for construction, testing, commissioning and handover of the Wayside Signalling system to operations.
- Performs relevant reviews, inspections, quality and compliance verification and validations of the Wayside Signalling system and carries out the delegated tasks to achieve business objectives in line with management expectations.
- Supports and participates in the assurance activities for the construction, testing, commissioning, safety, and quality assurance for the delivery of the Wayside Signalling system as part of the CBTC system.
- Participates in the development, review, verification, and validation of the technical requirements to ensure compliance with project documents, legislation, standards and regulations incorporating engineering best practices.
- Contributes to the creation and development of the codes of practice, technical standards, specifications, work instructions and Asset Management Plans for the management of the CBTC Assets.

Technical

- Provides technical direction subject matter expertise on the CBTC technology for the implementation of the Wayside Signalling system.
- Facilitates the integration of Wayside Signalling infrastructure with other railway infrastructure through interaction and collaboration with project teams and other stakeholders.
- Provides technical advice to project managers and stakeholders as required on all aspects of CBTC system and specialist expertise on the Wayside Signalling related matters including design, construction, compliance, and risk mitigation.

Other duties

- Carries out other tasks and functions that are within the limits of the employee's skills, competence and training as required.

SELECTION CRITERIA

1. Core Competencies

- Possession of relevant engineering degree or equivalent that would satisfy admission requirements for membership to Engineers Australia.
- Proven experience in the planning, design, construction and commissioning of the CBTC Signalling system and specialist knowledge of Wayside Signalling system deployment.
- Proven experience in managing the technical interfaces and integration of Wayside Signalling system and other rail systems.
- Proven experience in applying engineering management frameworks, risk and safety management systems and knowledge of the Rail Safety Legislation.
- Proven experience in applying asset management frameworks contributing to asset management strategy.
- Proven ability to develop, interpret and implement the standards, specifications and procedures for the CBTC Signalling system.

2. Management and Leadership

- Management experience working with diverse project teams and stakeholders, with a proven ability to engage and guide teams and individuals to achieve agreed outcomes and deliver organisational objectives.
- Management skills including experience in providing clear advice, direction and appropriate feedback to multi-disciplinary project teams.

3. Communication and Interpersonal

- Well-developed interpersonal and communication skills including negotiation and facilitation skills, the ability to build and maintain positive working relationships with a wide range of stakeholders, and experience in writing concise and well-structured technical reports.

4. Conceptual, Analytical and Problem Solving

- Well-developed conceptual and analytical skills including the ability to analyse information and data and resolve complex technical and operational problems and issues.

5. Organisational

- Well-developed organisational skills with the ability to achieve agreed targets and timelines through the use of effective teamwork and delegation.

6. Special Requirements

- Satisfactory completion of required medical examinations to verify physical fitness to perform the duties of the position.
- Provision of a current National Police Clearance certificate dated 3 months or less from the date of application for the position.
- Possession of a current Western Australian 'C' or 'C-A' Class Driver's License or equivalent. This requirement continues for the duration of employment in this position and from time-to-time production of the licence on request by the PTA may be required.
- Ability to work outside normal working hours, including after-hours callouts, and occasionally at short notice.
- Applicants must meet the special requirements shown below within an agreed period. Cancellation of the appointment will occur where an applicant does not meet the special requirements within an agreed period of time after appointment.
 - Individual Access (IA)Track Access Permit.

Certification

The details contained in this document are an accurate statement of the duties, responsibilities and other requirements of the position.

Managing Director / Executive Director / General Manager

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Signature

.....
Date

Employee

I have read and accept the responsibilities of the Job Description Form.

The position's duties are to be performed in accordance with the PTA's Code of Conduct and the PTA's Values.

.....
Signature

.....
Date

