

Role Statement



TITLE OF POSITION: Senior Signal Engineer
CLASSIFICATION LEVEL: PO-3

Organisation Overview

The Department of Planning, Transport and Infrastructure (DPTI) serves the South Australian community by providing safe, effective and efficient planning, transport and infrastructure networks across the state and facilitating development of the State's Infrastructure, in accordance with South Australia's Strategic Plan and the State Infrastructure Plan.

DPTI is a values based organisation and relies on its people to live the values through positive behaviours to improve outcomes for employees and all South Australians.

By working together we capitalise on a unique and powerful opportunity – to connect with every part of our community and deliver positive outcomes every day.

Division

The Safety and Service Division comprises four directorates: Public Transport Operations, Asset Management, Infrastructure Delivery and Regulation. This role forms part of the Asset Management Directorate, Rail Infrastructure Management Section which:

- Develops and implements infrastructure strategies and initiatives
- Develops asset management strategies, including preparing, managing and maintaining asset registers and asset information systems
- Provides a systematic and coordinated approach to optimally sustain portfolio infrastructure
- Maximizes the value and delivery of infrastructure and assets over their whole of life
- Provides governance review mechanisms including performance monitoring
- Delivers the maintenance of assets to increase asset performance and return on investment

Role Overview

The Senior Signal Engineer is accountable to the Unit Manager, Signals and Communication Engineering for:

- The provision of railway signal engineering services to the agency and whole of government.
- Delivering departmental objectives by performing professional engineering work involving considerable independence in approach, a considerable degree of originality, ingenuity, judgement, and knowledge.
- Applying knowledge and experience in selecting, developing and applying railway signalling and communication to ensure the asset management and performance of the signalling infrastructure is maintained and improvements made, utilising:
 - Design, construction and testing principles;
 - Standards and codes of practice;

Directorate: Asset Management
Position Number: TR0897
ANZCO Code: 2332
Location: Mile End



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Transport and Infrastructure

- Investigating and reporting on signalling and communication system reliability issues;
- Researching and reporting on options to improve the signalling system performance;
- Preparing estimates, drawings, specifications and tender documents; and
- Providing technical support to maintenance staff.

Key Outcomes of the Role

The Senior Signal Engineer is required to undertake a wide range of activities which may include all or any of the following:

- a. Providing expert input into the development of professional standards, objectives and priorities of assigned programs, projects, assets, systems and/or services that deliver DPTI's objectives, including the implementation of change initiatives.
- b. Planning and managing complex projects where required, including determining and allocating resources and work priorities and motivating staff to ensure standards and efficiencies are met.
- c. Undertaking professional duties of an innovative and/or crucial nature including research, analysis and reporting relating to the resolve of complex issues and the management of assigned programs, projects, assets, systems and/or services.
- d. Preparing complex technical documents and correspondence for assigned programs, projects, assets, systems and/or services.
- e. Providing specialised input and advice to management and stakeholders regarding current relevant discipline developments, practices, technologies, policies and issues related to assigned programs, projects, assets, systems and/or services.
- f. Managing critical, sensitive and/or complex information and consultation processes with stakeholders and across government agencies.
- g. Contributing to a safe, diverse and healthy work environment free from discrimination and harassment by working in accordance with legislative requirements, the Code of Ethics for the South Australian Public Sector, equal employment opportunity and departmental human resource policies, including Work Health Safety and Wellbeing requirements.
- h. Contributing to a high standard of customer service for internal and external clients and quality management and risk.

Special Conditions and Essential Requirements

This position has been identified as a Rail Safety Worker and has been classified as a Category 3 Non-safety Critical Worker and will be subject to periodic health assessments as per Rail Safety National Law.

All Rail Safety Workers must carry out their duties in accordance with the Rail Safety National Law 2012 and in keeping with the Rail Commissioner's Safety Management System.

Some work outside normal hours and travel necessitating overnight absences may be involved.

Qualifications / Licences

- a. Degree in Electronics and Communication Engineering enabling eligibility for corporate membership of the Institution of Engineers, Australia or membership of Institution of Railway Signal Engineers, Australia

