

Role Description

Systems Integration Lead



| | |
|---------------------------------------|--|
| Cluster | Transport |
| Agency | Sydney Trains |
| Division/Branch/Unit | Engineering and Maintenance / Major Works / Operational Technology |
| Location | Clyde |
| Role Grade or Band | RC7 |
| Senior Executive Work Level Standards | Not Applicable |
| Kind of Employment | Permanent Full Time |
| Role Number | 51019226 |
| ANZSCO Code | 230000 |
| PCAT Code | 3216164 |
| Job Code | 81000335 |
| Health Assessment Category - Safety | Category 4 |
| Vision | N/A - Cat 4 Only |
| Hearing | N/A - Cat 4 Only |
| Date of Approval | March 2019 |
| Agency Website | www.sydneytrains.nsw.gov.au |

Agency overview

Sydney Trains provides train services throughout the Sydney metropolitan area and was established in July 2013. Its vision is to keep Sydney moving by putting the customer at the centre of everything it does and delivering safe, reliable and clean rail services to the people of Sydney. The organisation is focused on providing sustainable, efficient and cost effective services.

Primary purpose of the role

The primary responsibility of the role is to lead and manage development of system integration and configuration management strategies and plans. Manage and provide guidance to the system integration and system integration test activities. Assure systems integration and interface management success in line with the project programme.

Key accountabilities

- Ensure a tailored system integration and configuration management plans are established for all technical projects with planned integration of subsystems
- Ensure the system integration entry criteria is met prior to entering system integration phase
- System integration management control is in place to ensure each configuration item is meeting the key integration requirements throughout the system integration process
- Monitor and track integration progress based on subsystems which are verified and validated against system level requirements
- Plan and implement appropriate configuration management methodologies for tracking changes for configuration items
- Assess and ensure all planned or proposed changes are fully compatible for internal and external interfaces and communicate any issues or concerns to relevant stakeholders
- Ensure the integrated system is robust and ready for formal verification and validation activities
- Execute safety responsibilities, authorities and accountabilities consistent with Sydney Trains safety management system requirements which are defined in SMS document number SMS-02-RG-3058 and live the NSW Public Sector and organisational values to achieve outstanding outcomes for the organisation and customers.

Key challenges

- Establish robust system integration and configuration management process to manage and control both con-current and continuous integration activities.
- Identify situations where incremental subsystem integration is appropriate
- Working co-operatively, collaboratively and pro-actively with all key internal and external technical to ensure that the technological solutions are in line with best practice

Key relationships

| Who | Why |
|--|--|
| Internal | |
| Directors; Deputy Executive Directors across Sydney Trains and Transport for New South Wales representatives | <ul style="list-style-type: none">• for reporting and consultation on technology projects• for governance and technical advice• for consultation on broader cluster needs |
| Principal Engineers; Design Engineers; Maintenance Engineers and Managers and Asset Engineers and Managers | <ul style="list-style-type: none">• Technology solution endorsement and benefits quantification Subject matter Experts across Sydney Trains• provide high level technical solutions and engineering authority sign off that form the basis of engineering design• Translating technology initiatives into measurable maintenance reform• To ensure technology solutions aligns with the overall Asset Management Strategies |
| Procurement Managers; Project managers; Operations Centre Managers | <ul style="list-style-type: none">• Communicate the technical solution so the project solutions are aligned with the business needs technically• High level technical advice on translating technology to meet operational efficiencies |

| Who | Why |
|-----|-----|
|-----|-----|

| External | |
|--|--|
| Asset Standards Authority; Sydney Ports Authority; Freight Operators | <ul style="list-style-type: none"> for collaboration on standard review initiatives for data access to condition-based information |
| Freight Noise Strategy | <ul style="list-style-type: none"> Provide consultancy and advise on condition-based initiatives |
| Operational Technology Technical leaders, Reliability Engineers and Industry Specialists | <ul style="list-style-type: none"> collaborate with to provide engineering services and delivery outcomes |

Role dimensions

Decision making

As per the delegations for the role

Reporting line

This position reports to Business Technology & Test Manager

Direct reports

Nil

Budget/Expenditure

N/A

Essential requirements





- Appropriate tertiary qualifications in a relevant engineering discipline or relevant equivalent practical experience in application of systems engineering, processes and tools to complex systems projects.

Capabilities for the role

The NSW Public Sector Capability Framework applies to all NSW public sector employees. The Capability Framework is available at www.psc.nsw.gov.au/capabilityframework

Capability summary

Below is the full list of capabilities and the level required for this role. The capabilities in bold are the focus capabilities for this role. Refer to the next section for further information about the focus capabilities.

| NSW Public Sector Capability Framework | | |
|---|-------------------------------------|-----------------|
| Capability Group | Capability Name | Level |
|  Personal Attributes | Display Resilience and Courage | Adept |
| | Act with Integrity | Adept |
| | Manage Self | Adept |
| | Value Diversity | Intermediate |
|  Relationships | Communicate Effectively | Advanced |
| | Commit to Customer Service | Adept |
| | Work Collaboratively | Adept |
| | Influence and Negotiate | Adept |
|  Results | Deliver Results | Adept |
| | Plan and Prioritise | Adept |
| | Think and Solve Problems | Advanced |
| | Demonstrate Accountability | Adept |
|  Business Enablers | Finance | Intermediate |
| | Technology | Advanced |
| | Procurement and Contract Management | Adept |
| | Project Management | Adept |

Focus capabilities

The focus capabilities for the role are the capabilities in which occupants must demonstrate immediate competence. The behavioural indicators provide examples of the types of behaviours that would be expected at that level and should be reviewed in conjunction with the role's key accountabilities.

| NSW Public Sector Capability Framework | | |
|--|----------|---|
| Group and Capability | Level | Behavioural Indicators |
| Personal Attributes Act with Integrity | Adept | <ul style="list-style-type: none"> • Represent the organisation in an honest, ethical and professional way and encourage others to do so • Demonstrate professionalism to support a culture of integrity within the team/unit • Set an example for others to follow and identify and explain ethical issues • Ensure that others understand the legislation and policy framework within which they operate • Act to prevent and report misconduct, illegal and inappropriate behaviour |
| Relationships Communicate Effectively | Advanced | <ul style="list-style-type: none"> • Present with credibility, engage varied audiences and test levels of understanding • Translate technical and complex information concisely for diverse audiences • Create opportunities for others to contribute to discussion and debate • Actively listen and encourage others to contribute inputs • Adjust style and approach to optimise outcomes • Write fluently and persuasively in a range of styles and formats |
| Relationships Work Collaboratively | Adept | <ul style="list-style-type: none"> • Encourage a culture of recognising the value of collaboration • Build co-operation and overcome barriers to information sharing and communication across teams/units • Share lessons learned across teams/units • Identify opportunities to work collaboratively with other teams/units to solve issues and develop better processes and approaches to work |
| Results Plan and Prioritise | Adept | <ul style="list-style-type: none"> • Take into account future aims and goals of the team/unit and organisation when prioritising own and others' work • Initiate, prioritise, consult on and develop team/unit goals, strategies and plans • Anticipate and assess the impact of changes, such as government policy/economic conditions, on team/unit objectives and initiate appropriate responses • Ensure current work plans and activities support and are consistent with organisational change initiatives • Evaluate achievements and adjust future plans accordingly |

NSW Public Sector Capability Framework

| Group and Capability | Level | Behavioural Indicators |
|--|----------|---|
| Results Think and Solve Problems | Advanced | <ul style="list-style-type: none"> • Undertake objective, critical analysis to draw accurate conclusions that recognise and manage contextual issues • Work through issues, weigh up alternatives and identify the most effective solutions • Take account of the wider business context when considering options to resolve issues • Explore a range of possibilities and creative alternatives to contribute to systems, process and business improvements • Implement systems and processes that underpin high quality research and analysis |
| Business Enablers Technology | Advanced | <ul style="list-style-type: none"> • Show commitment to the use of existing and deployment of appropriate new technologies in the workplace • Implement appropriate controls to ensure compliance with information and communications security and use policies • Maintain a level of currency regarding emerging technologies and how they might be applied to support business outcomes • Seek advice from appropriate technical experts to leverage information, communication and other technologies to achieve business outcomes • Implement and monitor appropriate records, information and knowledge management systems protocols and policies |