

World class water services for a better life

Position Title	Reliability Engineer		
Position Number(s)	006821, 006822	Manager Title	Manager Maintenance Planning
Business Group	Asset, Operations & Delivery	MoR Title	Senior Manager Asset Maintenance and Ops Control
Business Unit	Asset Maintenance and Ops Control	Direct Report's Title(s)	n/a

What is the unique purpose of the role?

What is the reason for the role's existence and the key contribution to SA Water's success?

Lead and oversee the maintenance and reliability strategy of SA Water's state-wide infrastructure. Implement specialised recommendations to ensure agreed levels of service are provided that optimise operational risk, asset performance and life cycle costs.

What does the role do?

The key accountabilities unique to this role are (3-6 required):

Key Accountabilities	Accountability Details (2-8 per accountability)
Reliability Centred Maintenance	<ul style="list-style-type: none"> Develop and optimise maintenance and repair approaches, incorporating condition based maintenance, risk based maintenance and RCM philosophies to ensure assets are effectively and proactively maintained. Facilitate FMECA and risk assessment to initiate or change maintenance regimes, including development and update of relevant work instructions. Create and maintain management systems to ensure corporate compliance with statutory engineering requirements. Identify critical spares, manage critical spares register and ensure correct levels are held state-wide, to enhance asset reliability. Ensure Master Data and associated maintenance regimes are created or updated in works management system, in accordance with works management standards. Support execution teams by providing maintenance engineering and technical expertise.
Root Cause Analysis	<ul style="list-style-type: none"> Initiate and facilitate an on-site root cause analysis (e.g. fishbone, 5 Whys, Apollo) of assets when unpredicted failures occur. Use the root cause analysis outcomes to inform changes to operation and maintenance of the asset as well as existing /future infrastructure design and engineering. Lead the management of changes to the operation and maintenance of asset/infrastructure.

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Key Accountabilities	Accountability Details (2-8 per accountability)
Maintenance Excellence	<ul style="list-style-type: none"> Influence maintenance strategy and lead the change required to move the organisation from reactive to proactive based maintenance. Identify and implement maintenance and reliability continuous improvement initiatives to improve the maturity of maintenance and reliability within SA Water. Determine effectiveness of maintenance regime against internal and external benchmarks, using reliability metrics. Optimise maintenance regimes, minimise total cost and minimise operational risk. Review reliability strategies using reliability block modelling to ensure continual improvement of the reliability of all assets. Ensure end-to-end maintenance processes support maintenance effectiveness, identify and implement improvements where required.
Maintenance Data Analysis	<ul style="list-style-type: none"> Undertake historical maintenance failure data analysis. Undertake maintenance cost analysis. Perform detailed analysis of condition monitoring data to initiate and /or change maintenance regimes. Consolidate analysis and provide feedback on asset health to Asset Management for TOTEX decision making. Utilise analysis to influence asset maintenance strategy.

Knowledge, skills and experience the role requires

Criteria which will be used for recruitment and selection for this role (maximum of 8):

Foundation Knowledge, Skills, Experience and Qualifications	Essential or Desirable
Tertiary qualifications in Mechanical or Electrical Engineering	Essential
Post-graduate qualifications in Reliability Engineering	Desirable
Experience in reliability and maintenance engineering and condition monitoring	Essential
Excellent computer literacy (including SQL & Access database)	Essential
Ability to accurately record, manage and analyse data electronically	Essential
Excellent written and verbal communication skills	Essential
Understanding of works management systems and associated processes	Essential
Knowledge of water supply and waste water operations	Desirable

Who you work with

Key Stakeholder Relationships critical to the success of this role (maximum of 6):

- Manager Maintenance Planning, Manager Maintenance
- Asset Management (Asset Planners & Asset Information Team)
- Asset Maintenance & Operational Control, Customer Field Services, Production & Treatment, Allwater, Technical & Commercial Operations

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- Engineering
- Capital Delivery
- Finance

Special conditions

Does the role have any unique requirements?

- Flexible hours and some after hours as required, some intra and interstate travel (mandatory)
- You will be required to hold a current driver's licence at all times

Your PD outlines what the requirements of your role are. The behaviours you demonstrate are equally as important and form part of your PD.

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