

**SKILLS FRAMEWORK FOR PUBLIC TRANSPORT
TECHNICAL SKILLS AND COMPETENCIES (TSC) REFERENCE DOCUMENT**

TSC Category	Maintenance Management					
TSC	Asset Management					
TSC Description	Formulate and implement the organisation's asset management policies to optimise asset life-cycle and performance					
TSC Proficiency Description	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
			PTP-MAI-3024-1.1	PTP-MAI-4024-1.1	PTP-MAI-5024-1.1	PTP-MAI-6024-1.1
			Implement organisation's asset management procedures as part of maintenance and operational activities	Develop organisation's asset management standards and processes targeted at enhancing maintenance and operational activities	Formulate organisation's asset management strategy to ensure that maintenance and operational activities are aligned to organisation and regulatory requirements	Influence organisation's approach on formulation of asset management strategy and operations
Knowledge			<ul style="list-style-type: none"> Principles of asset integrity and management Principles of operation, performance and maintenance of engineering systems and equipment Methods of asset technical integrity analysis Methods of optimising maintenance, inspection and testing plans Asset management policy and implications of non-conformance Terminology used in asset management policy and requirements Original Equipment Manufacturer (OEM) warranties, recommendations and documentation Organisation's asset integrity reports and documentation 	<ul style="list-style-type: none"> Principles and development methodologies of asset management Key components of asset management systems Asset management life cycle Methods for monitoring, measurement, analysis and evaluation of asset management system Principles and methods of asset data management Original Equipment Manufacturer (OEM) warranties, recommendations and documentation Organisation's asset integrity reports and documentations Relationships between asset management system and organisation performance 	<ul style="list-style-type: none"> Concepts of asset management strategy for organisations Guiding principles for asset management system implementation Key performance indicators for asset management systems Internal and external factors impacting organisation's asset management strategy Asset lifecycle analysis, design principles and practices Organisation's asset integrity standards and audit procedures Regulatory frameworks and requirements of asset management 	<ul style="list-style-type: none"> Leading practices for asset management strategy and operations Relationship between organisation's asset management strategy and maintenance operations Internal and external changes affecting assets, asset management or the asset management system and the impact on the organisation's ability to achieve its asset management objectives Organisation's asset integrity standards and audit procedures Asset management risk management processes and approach Regulatory frameworks and requirements of asset management
Abilities			<ul style="list-style-type: none"> Interpret and operationalise organisational asset 	<ul style="list-style-type: none"> Develop organisation's asset management standards and processes 	<ul style="list-style-type: none"> Formulate the organisation's asset management strategy 	<ul style="list-style-type: none"> Establish a strategic asset management policies and objectives

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			<p>management standards and processes as part of maintenance and operations activities</p> <ul style="list-style-type: none"> • Conduct asset integrity inspections on engineering systems and equipment • Identify and report areas of non-conformance against the organisation asset management policy • Document asset management system information as determined by the organisation and/or regulators • Generate asset integrity audit reports • Contribute to continuous improvement activities associated with asset integrity management 	<ul style="list-style-type: none"> • Manage the implementation of organisational asset management activities • Monitor and measure the occurrences of non-conformances against asset management standards as part of asset management audit process • Review periodically the asset management standards and processes to identify areas for improvement • Incorporate asset management standards and processes into organisation's maintenance and operational activities 	<p>built on core asset management concepts and key influencing factors</p> <ul style="list-style-type: none"> • Integrate insights gathered from maintenance data to enhance the organisation's asset management maintenance regime and strategy • Devise implementation roadmap for asset management system • Formulate key performance criteria and methods to assess effectiveness of organisation's asset management system • Determine corrective and preventive processes to rectify non-conformance areas in asset management framework • Communicate the importance of an asset management system for maintenance and operational activities to internal and external stakeholders • Initiate periodic audit exercises to ensure that organisation's asset management system is aligned with organisation standards and industry's regulatory requirements 	<p>that forms an integrated part of the organisation's management system</p> <ul style="list-style-type: none"> • Guide the formulation of organisation's asset management strategy • Synergise insights gathered from industry best practices to establish asset management strategy • Examine audited assessments of the assets ensuring that the approach used to manage risk in asset management is aligned with organisation's and regulatory requirements
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