

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

<b>TSC Category</b>	Maintenance Management					
<b>TSC</b>	Engineering Maintenance Management					
<b>TSC Description</b>	Implement engineering maintenance strategy to enhance performance level of public transport fleet					
<b>TSC Proficiency Description</b>	<b>Level 1</b>	<b>Level 2</b>	<b>Level 3</b>	<b>Level 4</b>	<b>Level 5</b>	<b>Level 6</b>
				<b>PTP-MAI-4026-1.1</b>	<b>PTP-MAI-5026-1.1</b>	<b>PTP-MAI-6026-1.1</b>
				Facilitate technical maintenance workflows and procedures to augment improvements in maintenance-related activities	Formulate organisational approach on maintenance operations	Strategise maintenance work, taking reference to industry best practices and emerging technologies so as to drive optimal asset reliability
<b>Knowledge</b>				<ul style="list-style-type: none"> <li>Types of work assignments for maintenance of public transport fleet</li> <li>Fundamental principles of maintenance management and asset integrity</li> <li>Guiding principles and quality standards for repair, maintenance and testing methodologies of public transport systems and equipment</li> <li>Lean concepts, methodology and tools required for public transport fleet maintenance activities</li> <li>Techniques for determining mean time between failure (MTBF)</li> <li>Audit requirements for public transport fleet maintenance activities</li> <li>Emergency response procedures</li> <li>Methods to conduct engineering studies and feasibility assessments</li> </ul>	<ul style="list-style-type: none"> <li>Organisational overall public transport fleet maintenance plans</li> <li>Fundamental principles of maintenance management and asset integrity</li> <li>Public transport fleet maintenance performance metrics</li> <li>Impact of organisational maintenance plans on revenue operations</li> <li>Lean concepts, methodology and tools required for public transport fleet maintenance activities</li> <li>Methods of evaluating resources required for public transport fleet maintenance activities</li> <li>Audit requirements for public transport fleet maintenance activities</li> <li>Current and new engineering technologies, systems and processes</li> </ul>	<ul style="list-style-type: none"> <li>Organisational overall public transport fleet maintenance plans</li> <li>Cross-functional interdependencies between operations and maintenance branch</li> <li>Public transport fleet maintenance performance metrics</li> <li>Leading principles and best practices of public transport fleet maintenance</li> <li>Current and new engineering technologies, systems and processes associated with public transport fleet maintenance</li> <li>Resources required to implement maintenance plans</li> <li>Impact of organisational maintenance plans on revenue operations</li> <li>Regulatory requirements pertaining to public</li> </ul>

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					<p>associated with fleet maintenance strategies</p> <ul style="list-style-type: none"> <li>Regulatory requirements pertaining to public transport operations and maintenance</li> </ul>	<p>transport operations and maintenance</p>
<b>Abilities</b>				<ul style="list-style-type: none"> <li>Analyse organisational work assignments for maintenance of public transport fleet to recommend priority of maintenance activities</li> <li>Communicate guiding principles and quality standards of maintenance activities to relevant stakeholders to ensure objectives of maintenance plans are met</li> <li>Implement audits for public transport fleet maintenance activities</li> <li>Conduct engineering studies and feasibility assessments to recommend adoption of new initiatives in improving public transport fleet maintenance plans</li> <li>Prepare maintenance and inspection reports for management</li> </ul>	<ul style="list-style-type: none"> <li>Lead the development of short-term and long-term objectives and goals of functional maintenance plans</li> <li>Establish key performance indicators and targets for maintenance programmes and regimes</li> <li>Evaluate effectiveness of functional maintenance plans in meeting public transport fleet performance metrics</li> <li>Devise functional public transport fleet maintenance plans</li> <li>Evaluate workplans and resources required for public transport fleet maintenance activities</li> <li>Review audits conducted on public transport fleet maintenance activities</li> <li>Guide the integration of relevant engineering solutions adopted from current and emerging technologies, systems and processes into organisational fleet maintenance activities</li> <li>Establish protocols to ensure compliance regulatory requirements</li> </ul>	<ul style="list-style-type: none"> <li>Liaise with key stakeholders to determine objectives of the maintenance strategy</li> <li>Compare possible strategies, techniques and tools to select preferred maintenance strategy to improve the reliability of equipment</li> <li>Synergise cross-functional maintenance regimes to improve overall fleet maintenance operations</li> <li>Drive the adaptation and adoption of relevant current and emerging technologies, systems and processes on public transport fleet maintenance activities</li> <li>Synergise workplans and resource allocations to drive public transport fleet maintenance strategy</li> <li>Devise and re-organise workplans and resources</li> <li>Articulate public transport fleet maintenance strategy and policy to management team, and internal and external stakeholders</li> </ul>

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						<ul style="list-style-type: none"><li>• Approve changes to organisational protocols to ensure compliance with regulatory requirements</li></ul>
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