

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

TSC Category	Maintenance Management					
TSC	Maintenance Scheduling					
TSC Description	Plan and manage maintenance schedules in accordance to the organisational standards and Original Equipment Manufacturer recommendations					
TSC Proficiency Description	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
			PTP-MAI-3028-1.1	PTP-MAI-4028-1.1	PTP-MAI-5028-1.1	
			Execute maintenance plans in accordance with maintenance regime requirements	Develop maintenance schedules and re-prioritise resources in case of deviations to reduce resourcing downtime	Formulate maintenance regimes, achieve maintenance targets in alignment with organisational resource planning and allocation	
Knowledge			<ul style="list-style-type: none"> Fundamental principles of maintenance management Planning and scheduling concepts System and component susceptibility to damage and associated requirement for maintenance frequency Resources required for maintenance Methods to upkeep maintenance database Original Equipment Manufacturer (OEM) recommendations for maintenance schedule Predictive and preventive maintenance concepts and methodologies Workplace Safety and Health (WSH) regulatory requirements related to inspection of equipment by authorised examiners 	<ul style="list-style-type: none"> Fundamental principles of maintenance management and asset integrity Implications of failure trend analysis on public transport assets, systems and facilities maintenance schedule Resource planning for maintenance Factors affecting equipment and system performance Methods of rescheduling maintenance activities Original Equipment Manufacturer (OEM) recommendations for maintenance schedule Workflows and work planning Equipment maintenance cycle times 	<ul style="list-style-type: none"> System-wide assets operational performance and maintenance trends and data Statutory regulations and service level agreement pertaining to Public Transport Operator (PTO) contract Methods to conducting cost-benefit analysis maintenance policy changes Principles of failure management and operations optimisation Method of measuring maintenance performance and schedule compliance Man-hour estimations and wrench time principles Statistical data analysis, methods and techniques 	
Abilities			<ul style="list-style-type: none"> Coordinate execution of maintenance work with internal and external stakeholders in accordance to 	<ul style="list-style-type: none"> Develop resource plans when scheduling maintenance activities 	<ul style="list-style-type: none"> Formulate asset maintenance scheduling plans based on system-wide trending data, statutory regulations and 	

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			<p>maintenance plan and schedule</p> <ul style="list-style-type: none"> • Implement maintenance schedule of public transport assets, systems and facilities according to system • Communicate maintenance and inspection activities to maintenance team • Recommend inputs to the Maintenance Planner on the maintenance regime • Upkeep maintenance database to support data analytics • Contribute to the continuous improvement of planning and scheduling activities 	<ul style="list-style-type: none"> • Undertake planning reviews and updates of maintenance schedules • Re-prioritise resource to mitigate deviation from maintenance schedules • Forecast component and systems maintenance schedules based on failure trend analysis • Modify maintenance schedules according to factors affecting equipment and system performance • Produce planning and scheduling reports 	<p>service level agreements</p> <ul style="list-style-type: none"> • Evaluate deviations to established maintenance schedules to mitigate critical maintenance requirements • Optimise maintenance scheduling plans based on principles of failure management and operations optimisation • Endorse maintenance plans and schedules • Evaluate planning and scheduling activities through cost benefit analysis to ensure optimal deployment of resource and manpower for maintenance work 	
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