

TSC Category	Engineering Construction, Operations and Maintenance					
TSC	Maintenance Strategy Management					
TSC Description	Formulate and implement organisational maintenance strategies to enhance performance and operational reliability					
TSC Proficiency Description	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
				EGS-MAI-4046-1.1	EGS-MAI-5046-1.1	EGS-MAI-6046-1.1
				Develop technical maintenance workflows and procedures to recommend improvements in maintenance-related activities	Integrate organisational overall approach on functional maintenance operations	Strategise maintenance work, taking reference to industry best practices and emerging technologies so as to drive optimal operational reliability
Knowledge				<ul style="list-style-type: none"> Fundamental principles of maintenance management Guiding principles and quality standards for repair, maintenance and testing methodologies of systems and equipment Lean concepts, methodologies and tools required for maintenance activities Techniques for determining mean time between failure (MTBF) Audit requirements for maintenance activities Emergency response procedures Methods of conducting engineering studies and feasibility assessments 	<ul style="list-style-type: none"> Organisational overall maintenance plans Fundamental principles of maintenance management Methods of evaluating effectiveness of maintenance plans Maintenance performance metrics Impact of organisational maintenance plans on revenue operations Lean concepts, methodology and tools required for maintenance activities Methods of evaluating resources required for maintenance activities Audit requirements for maintenance activities Current and new engineering technologies, systems and processes associated with maintenance strategies 	<ul style="list-style-type: none"> Organisational overall maintenance plans Cross-functional interdependencies Maintenance performance metrics Leading principles and best practices of maintenance Current and new engineering technologies, systems and processes associated with maintenance Management of resources required to implement maintenance plans Impact of organisational maintenance plans on revenue operations
Abilities				<ul style="list-style-type: none"> Analyse organisational work assignments for maintenance to recommend priority of maintenance activities 	<ul style="list-style-type: none"> Lead the development of short and long term objectives and goals of functional maintenance plans 	<ul style="list-style-type: none"> Liaise with key stakeholders to determine objectives of the maintenance strategy

				<ul style="list-style-type: none"> • Communicate guiding principles and quality standards of maintenance activities to relevant stakeholders to ensure objectives of maintenance plans are met • Implement audit for maintenance activities • Conduct engineering studies and feasibility assessments to recommend adoption of new initiatives in improving maintenance plans • Prepare maintenance and inspection reports for management 	<ul style="list-style-type: none"> • Establish key performance indicators and targets for maintenance programme and regime • Evaluate effectiveness of functional maintenance plans in meeting performance metrics • Devise functional maintenance plans • Lead maintenance activities involving both engineering and non-engineering departments to ensure minimal disruption to revenue operations • Evaluate work plans and amount of resources required for maintenance activities • Review audit conducted on maintenance activities • Guide the integration of relevant engineering solutions adopted from current and emerging technologies, systems and processes into organisational maintenance activities 	<ul style="list-style-type: none"> • Compare possible strategies, techniques and tools to select preferred maintenance strategy to improve reliability of equipment • Transform overall cross-functional maintenance regime to improve its reliability and performance • Influence the adaptation and adoption of relevant current and emerging technologies, systems and processes on maintenance activities • Synergise work plans and resource allocations in driving maintenance strategy • Devise and reorganise work plans and resources • Articulate maintenance strategies and policies to management team, and internal and external stakeholders • Mentor projects involving both engineering and non-engineering departments to drive maintenance strategies
--	--	--	--	---	---	--