

**SKILLS FRAMEWORK FOR ENVIRONMENTAL SERVICES
TECHNICAL SKILLS & COMPETENCIES (TSC) REFERENCE DOCUMENT**

TSC Category	Technology Management					
TSC	Automation Research and Implementation					
TSC Description	Manage equipment and information technologies and integrate into organisation operations or processes to achieve organisation desired outcomes					
TSC Proficiency Description	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
			EVS-TEM-3001-1.1	EVS-TEM-4001-1.1	EVS-TEM-5001-1.1	
			Analyse existing manual operations for areas of improvement to identify appropriate technology to automate operations	Review and refine proposed technology and automation for implementation	Formulate business process improvement strategy through automation	
Knowledge			<ul style="list-style-type: none"> Relevant organisational strategies, objectives, processes Types automation technologies available in the industry Types of transport automation technology available in the industry Automation technology integration techniques and tools Best practices in management of automation technologies 	<ul style="list-style-type: none"> Relevant organisational strategies, objectives, processes Best practices in management of automation technologies Automation technology integration plan Design of automation processes Impact analysis on automation technology integration Strengths and limitations on automation technology integration 	<ul style="list-style-type: none"> Relevant organisational strategies, objectives, processes Emerging trends in automation technology Strengths and limitations on automation technology integration Processes to develop organisational strategies Impact of internal and external influencing factors 	
Abilities			<ul style="list-style-type: none"> Analyse areas in operations where automation can replace manual intensive processes Identify automation technologies that can improve processes Implement test methodology on selected automation technology to determine suitability Support in the development of 	<ul style="list-style-type: none"> Review business impact of adopting identified technology to automate business processes Adapt the design of proposed automation technology to suit business requirements of existing operations Develop implementation plans to implement automation technology in existing operations Review the outcome of integration plans in 	<ul style="list-style-type: none"> Formulate business process improvement strategy through automation Formulate risk management protocol for process automation Review existing operational procedures with the integration of automation technology Lead and present the validating strategies for management's approval 	

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			automation implementation plans • Recommend appropriate technology for implementation in accordance with organisation objectives	accordance with organisation objectives • Evaluate effective resource allocation to the best investment of the organisation		
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