

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

<b>TSC Category</b>	Data Analytics and Information Technology Management					
<b>TSC</b>	Technology Integration					
<b>TSC Description</b>	Integrate technologies into business operations of the organisation to optimise efficiency and effectiveness of processes					
<b>TSC Proficiency</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>STP-TEM-2025-1.1</b>	<b>STP-TEM-3025-1.1</b>	<b>STP-TEM-4025-1.1</b>		
		Adopt new technologies to enhance business processes	Implement technology plans and supervise use of technology to execute tasks	Review practicality, feasibility and risks of new technologies in relation to business processes		
<b>Knowledge</b>		<ul style="list-style-type: none"> <li>Operational technologies used in business activities</li> <li>Process control systems</li> <li>Application of Internet of Things (IoT)</li> <li>Application of blockchain</li> <li>Application of robotics process automation</li> <li>Functions of cloud computing</li> <li>Application of cybersecurity</li> </ul>	<ul style="list-style-type: none"> <li>Technology integration tools, plans and approaches</li> <li>Risks involved with implementation of new technologies</li> <li>Performance metrics to measure effectiveness of new technologies</li> <li>Workflow, procedures and work instructions of tasks to be executed with the use of technology</li> </ul>	<ul style="list-style-type: none"> <li>Control procedures for technology integration</li> <li>Procedures to support business continuity and disaster recovery</li> <li>Methods of evaluating resources and skills to carry out tasks using automated technologies and robotic systems</li> <li>Types of logic control programs and best practices</li> <li>Concepts pertaining to performance specifications and analysis</li> <li>Best practices in technology application</li> <li>Change Management and business transformation</li> </ul>		

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<p><b>Abilities</b></p>		<ul style="list-style-type: none"> <li>• Adopt new technologies to improve work operations or processes</li> <li>• Conduct feasibility trials of new technologies for integration into work processes</li> <li>• Support technology implementation plans</li> </ul>	<ul style="list-style-type: none"> <li>• Assess performance of department to identify areas for change or improvement using technologies</li> <li>• Generate ideas for the development of technology-enabled solutions to solve business problems</li> <li>• Implement technology integration plans to meet business requirements while adhering to risk management procedures</li> <li>• Oversee use of technologies applications</li> <li>• Identify faults in the use of technologies systems processes and report to technical team</li> <li>• Interpret and extract relevant process parameters from given specifications</li> </ul>	<ul style="list-style-type: none"> <li>• Socialise new technologies with stakeholders for feedback</li> <li>• Determine cost impact and risks associated with new technology applications</li> <li>• Develop technology implementation approaches and schedules</li> <li>• Develop optimisation plans to improve the application of technologies in business operations</li> <li>• Evaluate effectiveness of new technologies to solve business problems</li> <li>• Recommend optimisation techniques to technical teams to improve efficiency of processes</li> </ul>		
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