

<b>TSC Category</b>	Maintenance Management					
<b>TSC</b>	Maintenance Integrity and Reliability Framework Development and Implementation					
<b>TSC Description</b>	Develop and implement maintenance integrity and reliability frameworks to ensure availability and reliability of process plants and equipment					
<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>
			ECM-MAI-3002-1.1	ECM-MAI-4002-1.1	ECM-MAI-5002-1.1	ECM-MAI-6002-1.1
			Interpret maintenance integrity and reliability practices in the planning, preparation and execution of work activities	Develop maintenance integrity and reliability frameworks and practices to ensure availability and reliability of process plants and equipment	Evaluate maintenance integrity and reliability frameworks to ensure effectiveness implementation for the control of maintenance and reliability related work activities	Set direction of maintenance integrity and reliability frameworks to meet the organisation's plant performance objectives
<b>Knowledge</b>			<ul style="list-style-type: none"> <li>Principles of maintenance management</li> <li>Asset maintenance standards and practices</li> <li>Preventive maintenance monitoring and inspection methods</li> <li>Vendors' manuals and instructions</li> <li>Equipment repair methods and techniques</li> <li>Equipment performance and failure analysis</li> <li>Principles of condition-based monitoring</li> <li>Risk assessment methods and practices</li> </ul>	<ul style="list-style-type: none"> <li>Maintenance management strategies and philosophies</li> <li>Engineering standards</li> <li>Maintenance management frameworks principles and practices</li> <li>Computer-based maintenance management systems applications</li> <li>Consequence and impact considerations related to Management of Change (MOC)</li> <li>Method in reviewing vendors' information</li> <li>Methods to develop and organise systematic listing, referencing points and procedures</li> </ul>	<ul style="list-style-type: none"> <li>Industry best practices in maintenance and reliability methods and techniques</li> <li>Engineering standards</li> <li>Data analytics techniques</li> <li>Maintenance and reliability management techniques, strategies and practices</li> </ul>	<ul style="list-style-type: none"> <li>Industry best practices in maintenance and reliability methods and techniques</li> <li>Technological advancements in asset reliability and integrity maintenance</li> <li>Maintenance and reliability management techniques, strategies and practices</li> </ul>
<b>Abilities</b>			<ul style="list-style-type: none"> <li>Implement maintenance procedures in line with maintenance integrity</li> </ul>	<ul style="list-style-type: none"> <li>Develop and implement maintenance integrity and reliability systems, policies and procedures</li> </ul>	<ul style="list-style-type: none"> <li>Review the development and implementation of maintenance integrity and reliability</li> </ul>	<ul style="list-style-type: none"> <li>Drive maintenance integrity and reliability frameworks for continuous improvement</li> </ul>

**SKILLS FRAMEWORK FOR ENERGY AND CHEMICALS  
TECHNICAL SKILLS AND COMPETENCIES (TSC) REFERENCE DOCUMENT**

			<p>and reliability frameworks</p> <ul style="list-style-type: none"> <li>• Implement maintenance planning and scheduling activities</li> <li>• Implement maintenance standards in line with equipment vendor recommendations</li> <li>• Interpret maintenance management reports</li> <li>• Implement maintenance work instructions</li> </ul>	<ul style="list-style-type: none"> <li>• Develop maintenance standards in line with equipment vendors' recommendations</li> <li>• Develop and implement maintenance work instructions</li> <li>• Develop preventive maintenance schedules and plans</li> <li>• Develop and communicate maintenance reports</li> </ul>	<p>frameworks in accordance with industry best practices and standards</p> <ul style="list-style-type: none"> <li>• Interpret data to recommend improvements to maintenance and reliability frameworks and practices</li> <li>• Guide the development and audit review process</li> <li>• Evaluate the feasibility of using different asset maintenance and reliability techniques in the organisation</li> </ul>	<ul style="list-style-type: none"> <li>• Set and drive maintenance management performance standards</li> <li>• Endorse the development and implementation of maintenance integrity and reliability frameworks</li> </ul>
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