

<b>TSC Category</b>	Maintenance Management					
<b>TSC</b>	Asset Integrity Management					
<b>TSC Description</b>	Manage asset integrity of process plants and equipment to ensure optimal availability, reliability and integrity of equipment and systems					
<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-2001-1.1	ECM-MAI-3001-1.1	ECM-MAI-4001-1.1	ECM-MAI-5001-1.1	
		Apply standards and procedures of asset integrity to perform maintenance work	Interpret standards and procedures of asset integrity to provide guidance for maintenance work and asset integrity related work	Develop asset integrity standards and procedures to ensure asset integrity procedures and guidelines are being followed	Validate asset integrity standards and procedures to drive the asset integrity management process	
<b>Knowledge</b>		<ul style="list-style-type: none"> <li>Principles of operation, performance and maintenance of main process equipment and systems</li> <li>Vendor equipment warranties and recommended spares</li> <li>Methods of asset technical integrity analysis</li> <li>Principles of inspection and reporting</li> <li>Principles of optimising Maintenance, Inspection and Testing Plans (MITPs)</li> <li>Methods of performing routine audits</li> </ul>	<ul style="list-style-type: none"> <li>Asset integrity standards, procedures and practices</li> <li>Principles of asset life cycles</li> <li>Procedures and methods of corrosion management</li> <li>Principles of risk based inspection</li> <li>Principles of inspection reporting</li> <li>Principles of barrier models</li> <li>Policies and procedures in Reliability Centred Maintenance (RCM)</li> <li>Policies and procedures in condition based monitoring principles, techniques and practices</li> </ul>	<ul style="list-style-type: none"> <li>Asset integrity standards and practices</li> <li>Methods of corrosion management and analysis</li> <li>Principles of Engineering Criticality Assessment (ECA)</li> <li>Principles of Asset Integrity Management Systems (AIMSs)</li> <li>Equipment design engineering principles and practices</li> <li>Principles of integrity data management</li> <li>Asset integrity planning</li> </ul>	<ul style="list-style-type: none"> <li>Asset lifecycle analysis, design principles and practices including Life Cycle Information Databases (LCIDs)</li> <li>Principles of Asset Integrity Management Systems (AIMSs) and system specifications and integration</li> <li>Methods of asset integrity framework development and workplace implementation</li> <li>Regulatory requirements for plant asset integrity</li> </ul>	
<b>Abilities</b>		<ul style="list-style-type: none"> <li>Conduct asset integrity monitoring and inspections</li> <li>Conduct risk inspections of equipment and systems</li> </ul>	<ul style="list-style-type: none"> <li>Supervise the implementation of maintenance and asset integrity related activities</li> <li>Supervise risk inspections of equipment and systems</li> </ul>	<ul style="list-style-type: none"> <li>Manage maintenance and asset integrity activities</li> <li>Manage the asset integrity plan deployment</li> <li>Incorporate asset integrity procedures into</li> </ul>	<ul style="list-style-type: none"> <li>Develop and implement asset integrity standards, policies and practices</li> <li>Integrate asset integrity standards and systems throughout the organisation</li> </ul>	

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

		<ul style="list-style-type: none"> <li>• Conduct condition monitoring activities</li> <li>• Conduct asset integrity audits and recommend corrective actions</li> <li>• Contribute to continuous improvement activities associated with asset integrity</li> </ul>	<ul style="list-style-type: none"> <li>• Supervise condition monitoring activities</li> <li>• Supervise asset integrity audits and recommend corrective actions</li> <li>• Develop integrity reports for management review</li> </ul>	<p>predictive and preventative maintenance planning and scheduling</p> <ul style="list-style-type: none"> <li>• Review asset integrity audits</li> <li>• Develop asset integrity compliance reports</li> </ul>	<ul style="list-style-type: none"> <li>• Drive the compliance of asset integrity framework</li> <li>• Drive improvements in all aspects of asset integrity management</li> <li>• Maintain compliance with regulatory requirements for plant asset integrity</li> </ul>	
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