

TSC Category	Process Operations Management					
TSC	Process Plant and Equipment Integrity Management					
TSC Description	Manage process plant and equipment performance to safeguard and improve plant integrity and energy efficiency					
TSC Proficiency Description	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
			ECM-POM-3007-1.1	ECM-POM-4007-1.1	ECM-POM-5007-1.1	ECM-POM-6007-1.1
			Interpret process plant and equipment performance to contribute to high plant integrity and energy efficiency levels	Analyse process plant and equipment performance to supervise process operations for high plant integrity and energy efficiency levels	Review process plant and equipment performance to manage and maintain high plant integrity and energy efficiency levels	Formulate strategies and action plans to drive high plant integrity and energy efficiency levels
Knowledge			<ul style="list-style-type: none"> Process integrity, policies and procedures Process integrity analysis methods Methods of optimising process and utility systems using inspection and testing plans Condition-based monitoring principles, techniques and practices Principles of chemical injection systems Preservation and process conditioning methods Process plant design principles 	<ul style="list-style-type: none"> Process plant integrity methods Plant and equipment life cycles Consequences and impact considerations related to Management of Change (MOC) projects Process equipment and systems operating and maintenance regimes Corrosion management principles Risk based inspection principles Barrier models Reliability Centred Maintenance (RCM) procedures 	<ul style="list-style-type: none"> Principles of process integrity methods Process plant and equipment design principles and practices Integrity data management methods Energy consumption information Process equipment and systems designs and operations Corrosion management and analysis methods Engineering Criticality Assessment (ECA) methods 	<ul style="list-style-type: none"> Process plant lifecycle analysis, design principles and practices including Life Cycle Information Databases (LCIDs) Asset Integrity Management Systems (AIMSs) which include system specification and integration methods Process plant integrity framework development and implementation methods Process plant energy efficiency optimisation methods Methods of calculating return of investment on the use of energy efficient methods and equipment
Abilities			<ul style="list-style-type: none"> Apply process integrity processes and procedures Support routine process integrity activities including inspecting chemical injection systems, online 	<ul style="list-style-type: none"> Perform process units and utilities integrity monitoring activities Perform routine reviews of chemical injection systems, online preservation and 	<ul style="list-style-type: none"> Manage routine process integrity activities Perform process units and utilities integrity audits and recommend corrective actions Review process conditioning data and 	<ul style="list-style-type: none"> Develop and implement process integrity standards, policies and practices Drive improvements in all aspects of process integrity management

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

			<p>preservation and process conditioning systems</p> <ul style="list-style-type: none"> • Prepare process conditioning data and input into plant integrity management systems • Contribute to continuous improvement activities associated with process integrity activities and processes 	<p>process conditioning systems</p> <ul style="list-style-type: none"> • Analyse plant integrity and energy efficiency by using process conditioning data and input into the plant integrity management system • Support process units and utilities integrity audits • Contribute to continuous improvement activities associated with process integrity activities and processes 	<p>input into the plant integrity management system</p> <ul style="list-style-type: none"> • Develop process integrity compliance reports 	
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