

TSC Category	Discipline Engineering Support Management					
TSC	Engineering Support Management					
TSC Description	Provide discipline engineering technical support and expertise in technical specifications, modifications, asset integrity and troubleshooting of engineering equipment and systems, to production, maintenance and project teams					
TSC Proficiency Description	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
				ECM-DES-4002-1.1	ECM-DES-5002-1.1	
				Interpret technical specifications, modification designs, constructability methods, maintenance procedures, and asset integrity techniques to provide discipline engineering support to production, maintenance and project teams	Evaluate technical specifications, modification designs, constructability methods, maintenance procedures, and asset integrity techniques to manage discipline engineering support to production, maintenance and project teams	
Knowledge				<ul style="list-style-type: none"> • Project engineering principles and practices • Maintenance management principles • Methods of reading and interpreting engineering documents and diagrams • Methods of reading and interpreting vendor documentation • Types of instrumentation and process control • Types of process control systems • Emergency shutdown systems • Electrical power generation and distribution • Mechanical static and rotating equipment • Troubleshooting and fault-finding techniques 	<ul style="list-style-type: none"> • Engineering principles and practices • Asset integrity management principles • Process control and automation strategies • Electrical power generation and distribution management • Mechanical static and rotating equipment management • Third-party vendor management 	

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

<p>Abilities</p>				<ul style="list-style-type: none"> • Interpret technical specifications, modification designs, constructability methods, maintenance procedures and asset integrity techniques • Guide and advise discipline-specific support to maintenance, process and project teams • Provide discipline-specific fault-finding and troubleshooting support • Maintain and update engineering documentation • Calibrate, test and configure plant equipment and systems 	<ul style="list-style-type: none"> • Evaluate technical specifications, modification designs, constructability methods, maintenance procedures and asset integrity techniques • Manage discipline-specific engineering support activities, providing guidance and advice for engineering support to maintenance, processes and project teams • Manage major equipment vendors, including time and cost control • Provide discipline engineering-related advice and guidance on new and emerging engineering technologies 	
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