

<b>TSC Category</b>	Supply Chain and Production Planning Management					
<b>TSC</b>	Plant Economic Modelling					
<b>TSC Description</b>	Develop plant economic models for current operations, and growth scenarios according to business plans, to forecast optimal plant and economic configurations for supply and demand					
<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-SCP-4002-1.1	ECM-SCP-5002-1.1	
				Develop plant economic models to optimise supply chain processes	Evaluate plant economic models to review plant capacities for growth scenarios and for business strategies	
<b>Knowledge</b>				<ul style="list-style-type: none"> <li>Plant economic models, management principles and practices</li> <li>Process and equipment design and operating limits</li> <li>Plant economic modelling software applications</li> <li>Manufacturing process management (MPM) principles and practices</li> <li>Principles of enterprise resource planning</li> <li>Data analytics techniques</li> </ul>	<ul style="list-style-type: none"> <li>Plant economic modelling systems and techniques</li> <li>Comparisons between dynamic and static economic models of plants</li> <li>Principles of enterprise resource planning</li> <li>Techniques in data analytics</li> <li>Statistics and statistical correlation techniques</li> </ul>	
<b>Abilities</b>				<ul style="list-style-type: none"> <li>Develop plant economic models to optimise plant efficiency and effectiveness</li> <li>Develop capacity models in line with growth or decline scenarios</li> <li>Apply a range of data analysis techniques to determine data sources for plant economic modelling and to analyse results from the model</li> </ul>	<ul style="list-style-type: none"> <li>Analyse and review plant economic models to optimise plant efficiency and effectiveness in line with enterprise resource planning plans</li> <li>Develop a range of static and dynamic models of plants for management review</li> <li>Support project teams on plant economic optimisation strategies and technologies</li> </ul>	

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

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|  |  |  |  | <ul style="list-style-type: none"><li>• Conduct sensitivity analysis on modelling options and scenarios</li><li>• Develop and present management reports and recommendations for plant economic modelling and process optimisation improvements</li></ul> | <ul style="list-style-type: none"><li>• Review capacity models in line with growth or decline scenarios</li><li>• Review sensitivity analysis on modelling options and scenarios</li><li>• Review recommendations for economic modelling and process optimisation improvements</li></ul> |  |
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