

**SKILLS FRAMEWORK FOR DESIGN  
TECHNICAL SKILLS AND COMPETENCIES (TSC) REFERENCE**

<b>TSC Category</b>	Analytical Thinking					
<b>TSC</b>	Critical Thinking					
<b>TSC Description</b>	Examine, manage and connect issues and ideas from multiple perspectives to identify reasoning in a variety of fields with differing assumptions, contents and methods					
<b>TSC Proficiency</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>
			DSN-ACE-3012-1.1	DSN-ACE-4012-1.1	DSN-ACE-5012-1.1	
			Identify and examine problems to generate ideas and solutions	Manage problems from multiple stakeholder perspectives to ensure that the ideas generated are best suited to address the problems	Lead critical thinking processes to formulate connections between ideas and devise solutions to solve complex and unpredictable problems	
<b>Knowledge</b>			<ul style="list-style-type: none"> <li>• Critical thinking processes</li> <li>• Standards for the assessment of thinking</li> <li>• Stages for critical thinking development</li> <li>• Logical connections between ideas</li> <li>• Research methodologies and techniques</li> </ul>	<ul style="list-style-type: none"> <li>• Critical thinking processes</li> <li>• Standards for the assessment of thinking</li> <li>• Stages for critical thinking development</li> <li>• Logical connections between ideas</li> <li>• Roles of egocentrism and sociocentrism in thinking</li> <li>• Strategies to reduce egocentric thoughts</li> <li>• Research methodologies and techniques</li> </ul>	<ul style="list-style-type: none"> <li>• New approaches in critical thinking methods and processes</li> <li>• Methods and strategies to enhance creative thinking</li> <li>• Roles of egocentrism and sociocentrism in thinking</li> <li>• Strategies to reduce egocentric and sociocentric thoughts</li> <li>• New developments in research methodologies and techniques</li> <li>• Organisational strategies</li> </ul>	

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<p><b>Abilities</b></p>			<ul style="list-style-type: none"> <li>• Identify root causes, patterns or logical errors that may not be obvious</li> <li>• Appraise evidence and evaluate validity of arguments through interpretation of data</li> <li>• Solve problems by breaking them down into manageable parts in a systematic and detailed manner</li> <li>• Reflect on the justifications of own beliefs and values to provide reasons for ideas generated</li> <li>• Summarise, document, report and reflect on progress of solutions in an organised and comprehensive manner</li> </ul>	<ul style="list-style-type: none"> <li>• Examine situations and/or problems from the perspective of different stakeholders</li> <li>• Determine appropriate research methodologies for information gathering</li> <li>• Analyse information gathered for relevancy and credibility</li> <li>• Identify inconsistencies and mistakes in reasoning</li> <li>• Review the strengths and weaknesses of alternative interpretations</li> <li>• Review the relevance and importance of ideas generated by stakeholders</li> <li>• Develop probing questions to attain clarity for the subject matter being discussed</li> </ul>	<ul style="list-style-type: none"> <li>• Review proposed solutions to determine alignment against organisation's long-term goals</li> <li>• Challenge stakeholder consensus to verify their logic, ideas and assumptions</li> <li>• Engage stakeholders in making critical decisions to ensure buy-in and desirable outcomes</li> <li>• Drive new strategies and processes to enhance critical thinking capabilities of stakeholders</li> <li>• Inspire the use of critical thinking skills across the organisation while considering the 'big picture' and impact on organisational results</li> <li>• Develop strategies to reduce egocentric and sociocentric thinking to minimise bias in ideas and solutions generated</li> </ul>	
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