

**SKILLS FRAMEWORK FOR ELECTRONICS  
TECHNICAL SKILLS & COMPETENCIES (TSC) REFERENCE DOCUMENT**

<b>TSC Category</b>	System Integration					
<b>TSC</b>	Process Integration					
<b>TSC Description</b>	Integrate process loops and/or architecture to optimise process interactions between and within process modules as well as formulate strategies for yield performance improvements					
<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>
			<b>ELE-SYS-3002-1.1</b>	<b>ELE-SYS-4002-1.1</b>	<b>ELE-SYS-5002-1.1</b>	
			Implement process integration and interactions by identifying the process integration requirements for different process modules	Review process integration performance for specific technology	Formulate strategies for yield performance improvement	
<b>Knowledge</b>			<ul style="list-style-type: none"> <li>• Device physics</li> <li>• Types of performance metrics</li> </ul>	<ul style="list-style-type: none"> <li>• Specific technology process flow</li> <li>• Types of performance metrics</li> </ul>	<ul style="list-style-type: none"> <li>• Process characterisation</li> <li>• Types of performance metrics</li> <li>• Problem solving techniques</li> </ul>	
<b>Abilities</b>			<ul style="list-style-type: none"> <li>• Identify process loops and/or architecture in the manufacturing process</li> <li>• Outline manufacturing process flow</li> <li>• Determine process interaction between and within process modules</li> <li>• Verify process integration performance</li> <li>• Determine follow-up actions required</li> </ul>	<ul style="list-style-type: none"> <li>• Identify process flow to the specific technology in the manufacturing process in accordance with technology specifications</li> <li>• Determine process interaction between and within process modules to the specific technology in accordance with technology specifications</li> <li>• Determine device performance in accordance with product specifications</li> <li>• Verify process integration performance to the specific technology in accordance with product specifications</li> <li>• Determine follow-up actions required</li> </ul>	<ul style="list-style-type: none"> <li>• Analyse process interactions</li> <li>• Select appropriate new and/or continuous process integration improvement projects</li> <li>• Define project scope of work and the number of hours based on business requirements</li> <li>• Execute project in accordance with project plan</li> <li>• Evaluate project effectiveness in accordance with project objectives</li> <li>• Recommend follow-up actions</li> </ul>	