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

**TSC Category**: System Integration  
**TSC**: Process Integration

**TSC Description**: Integrate process loops and/or architecture to optimise process interactions between and within process modules as well as formulate strategies for yield performance improvements

<table>
<thead>
<tr>
<th>TSC Proficiency Description</th>
<th>Level 1</th>
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<th>Level 4</th>
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<th>Level 6</th>
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<tbody>
<tr>
<td>TSC Category</td>
<td>System Integration</td>
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<td><strong>Level 1</strong></td>
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<td>Implement process integration and interactions by identifying the process integration requirements for different process modules</td>
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<td>Formulate strategies for yield performance improvement</td>
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<td><strong>Level 2</strong></td>
<td></td>
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<td>Review process integration performance for specific technology</td>
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<td><strong>Level 3</strong></td>
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<td>Specific technology process flow</td>
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<td><strong>Level 4</strong></td>
<td>ELE-SYS-3002-1.1</td>
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<td>Types of performance metrics</td>
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<td><strong>Level 5</strong></td>
<td>ELE-SYS-4002-1.1</td>
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<td>Problem solving techniques</td>
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<td><strong>Level 6</strong></td>
<td>ELE-SYS-5002-1.1</td>
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<td>Process characterisation</td>
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**Knowledge**
- Device physics
- Types of performance metrics
- Specific technology process flow
- Types of performance metrics
- Process characterisation
- Types of performance metrics
- Problem solving techniques

**Abilities**
- Identify process loops and/or architecture in the manufacturing process
- Outline manufacturing process flow
- Determine process interaction between and within process modules
- Verify process integration performance
- Determine follow-up actions required
- Identify process flow to the specific technology in the manufacturing process in accordance with technology specifications
- Determine process interaction between and within process modules to the specific technology in accordance with technology specifications
- Determine device performance in accordance with product specifications
- Verify process integration performance to the specific technology in accordance with product specifications
- Determine follow-up actions required
- Analyse process interactions
- Select appropriate new and/or continuous process integration improvement projects
- Define project scope of work and the number of hours based on business requirements
- Evaluate project effectiveness in accordance with project objectives
- Recommend follow-up actions