SKILLS FRAMEWORK FOR INFOCOMM TECHNOLOGY
SKILLS MAP - SENIOR INFRASTRUCTURE ARCHITECT

**Job Role Description**
The Senior Infrastructure Architect provides the highest level of technical advice to senior leaders in the area of infrastructure planning & design. He/she takes ownership for multiple large scale infrastructure projects in alignment with security, demand, performance, and scalability needs of the enterprise. He/she ensures internal and external infrastructure architecture is implemented and aligned with organisational policies and procedures. He/she is responsible for developing and executing strategies, policies, and standards for the enterprise, and is accountable for infrastructure planning and design. He/she will be responsible for managing, planning, and implementing a range of infrastructure solutions and services, and for achieving cost and performance objectives.

**Key Tasks**
- Develop infrastructure architecture strategy
- Implement the infrastructure architecture roadmap
- Synthesize infrastructure performance
- Manage projects
- Manage teams

**Performance Expectations**
- Lead the technical and business discussions related to future infrastructure architecture requirements across the organization.
- Lead development of infrastructure architecture meeting the needs of the business, in conjunction with security, demand, performance, and scalability needs of the enterprise.
- Implement the roadmap and transition plans to a future state infrastructure architecture.
- Ensure that the portfolio of systems and programmes are in alignment with the infrastructure roadmap.
- Oversee the transition of current business practices and processes to enable delivery of appropriate solutions.
- Facilitate the formation of committees that drive the architecture reviews, development of policies and standards, and guidelines for processes.
- Drive the governance forum to align to the infrastructure architecture roadmap.
- Take ownership for the operation of multiple large-scale complex infrastructure platforms.
- Synthesize the research and evaluation of emerging technologies, industry and market trends.
- Drive effective performance management practices within the department in accordance with organisational policies and procedures.
- Drive an overall infrastructure architecture strategy and design to the overall business strategy.
- Participate in enterprise architecture strategy development, including environmental analysis, opportunity identification, value cases and business innovation portfolio development.
- Develop an overall infrastructure architecture.
- Align infrastructure architecture strategy and design to the overall business strategy.
- Develop a roadmap and implementation plans to transition current state architecture to a future state infrastructure architecture.
- Gain buy-in for the overall strategy and infrastructure architecture from all stakeholders.
- Participate in enterprise architecture strategy development, including environmental analysis, opportunity identification, value cases and business innovation portfolio development.
- Oversee the transition of current business practices and processes to enable delivery of appropriate solutions.
- Synthesize the research and evaluation of emerging technologies, industry and market trends.
- Develop the infrastructure architecture roadmap.
- Set standards and governance for the infrastructure architecture.
- Set-up an infrastructure architecture governance framework.
- Drive the governance forum to align to the infrastructure architecture roadmap.
- Lead the technical and business discussions related to future infrastructure architecture requirements across the organization.
- Lead development of infrastructure architecture meeting the needs of the business, in conjunction with security, demand, performance, and scalability needs of the enterprise.
- Implement the roadmap and transition plans to a future state infrastructure architecture.
- Ensure that the portfolio of systems and programmes are in alignment with the infrastructure roadmap.
- Oversee the transition of current business practices and processes to enable delivery of appropriate solutions.
- Facilitate the formation of committees that drive the architecture reviews, development of policies and standards, and guidelines for processes.
- Drive the governance forum to align to the infrastructure architecture roadmap.
- Take ownership for the operation of multiple large-scale complex infrastructure platforms.
- Synthesize the research and evaluation of emerging technologies, industry and market trends.
- Drive effective performance management practices within the department in accordance with organisational policies and procedures.

**Technical Skills & Competencies**

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<th>Technical Skills &amp; Competencies</th>
<th>Generic Skills &amp; Competencies (Top 5)</th>
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<td>Business Continuity</td>
<td>Level 4</td>
<td>Interdisciplinary Thinking Advanced</td>
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<td>Business Needs Analysis</td>
<td>Level 4</td>
<td>Digital Literacy Advanced</td>
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<td>Business Risk Management</td>
<td>Level 4</td>
<td>Creative Thinking Intermediate</td>
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<td>Cyber Incident Management</td>
<td>Level 4</td>
<td>Communication Intermediate</td>
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<td>Disaster Recovery Management</td>
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<td>Teamwork Intermediate</td>
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<tr>
<td>Emerging Technology Synthesis</td>
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<td>Infrastructure Deployment</td>
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<td>Infrastructure Support</td>
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<td>Network Administration and Maintenance</td>
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<td>Performance Management</td>
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<td>Problem Management</td>
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<td>Programme Management</td>
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<td>Security Architecture</td>
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<td>Sustainability Management</td>
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<td>System Integration</td>
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**Programme Listing**
For a list of Training Programmes available for the Infocomm Technology sector, please visit: [www.skillsfuture.sg/skills-framework/ict](http://www.skillsfuture.sg/skills-framework/ict)