## SKILLS FRAMEWORK FOR INFOCOMM TECHNOLOGY
### SKILLS MAP - INFORMATION ARCHITECT

<table>
<thead>
<tr>
<th>Sector</th>
<th>InfoComm Technology</th>
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</thead>
<tbody>
<tr>
<td>Task</td>
<td>Data</td>
</tr>
<tr>
<td>Occupation</td>
<td>Database and Network Professional</td>
</tr>
</tbody>
</table>

### Job Role Description

The Information Architect designs systems to facilitate access to and finding of information. He/she plans, designs, develops and tests internal information delivery solutions and data models with the focus on providing a positive user experience. He works with end users to specify requirements, create and implement designs to meet internal and client-facing objectives. He develops information management standards and practices.

He integrates diverse needs and perspectives from internal and external clients, possesses a creative mind to develop new and fresh ideas and solutions. He possesses strong leadership and communication abilities and is able to influence key stakeholders and clients he interfaces with.

### Critical Work Functions and Key Tasks / Performance Expectations

#### Critical Work Functions

- **Identify business needs**
- **Design information architecture**
- **Develop information systems**
- **Manage projects**
- **Guide implementation**

#### Key Tasks

- Collaborate with stakeholders to understand information management requirements across all systems, platforms and applications
- Identify users’ information seeking behaviour
- Determine interface design based on user’s requirements
- Identify the desired state of a coordinated information flow through the organisation
- Assess existing systems to evaluate their usability, usefulness, visual design and content
- Guide alignment of information management standards with the enterprise architectural plan and information security standards
- Develop strategies for seamless and low-risk migration of data between systems
- Communicate the design and recommendations to stakeholders
- Perform organisation of data content and navigational mapping
- Develop prototypes, sitemaps, and wireframes to model the physical layout of the information environment
- Support the implementation of information designs into systems
- Monitor user-interaction with the implemented information designs
- Validate effectiveness of information delivery through usability testing
- Plan project timelines and resources needed
- Deliver projects in line with agreed standards, providing fit-for-purpose solutions within time, quality and budget constraints
- Apply project management tools and processes to ensure project is cost-effective
- Identify any project risks
- Prepare project status reports for stakeholders
- Communicate project objectives at critical junctions to obtain buy-in from all stakeholders

#### Performance Expectations

(For legislated / regulated occupations)

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<th>Performance Expectations</th>
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<td>Guide implementation</td>
<td>Provide guidance on the implementation of information architecture</td>
<td>Provide direction on linkages between different systems to ensure the information flow is aligned with the information architecture, recommend innovative solutions to increase efficiencies around the integration of complex systems</td>
</tr>
</tbody>
</table>

### Technical Skills & Competencies

- **Business Needs Analysis**: Level 5
- **Data Design**: Level 5
- **Data Engineering**: Level 4
- **Data Governance**: Level 4
- **Data Migration**: Level 4
- **Data Strategy**: Level 4
- **Data Visualisation**: Level 5
- **Database Administration**: Level 5
- **Enterprise Architecture**: Level 4
- **Programme Management**: Level 5
- **Security Architecture**: Level 5
- **Solution Architecture**: Level 5
- **Stakeholder Management**: Level 4

### Generic Skills & Competencies (Top 5)

- **Transdisciplinary Thinking**: Intermediate
- **Creative Thinking**: Intermediate
- **Interpersonal Skills**: Intermediate
- **Leadership**: Intermediate
- **Resource Management**: Basic

### Programme Listing

For a list of Training Programmes available for the InfoComm Technology sector, please visit: [www.skillsfuture.sg/skills-framework/id](http://www.skillsfuture.sg/skills-framework/id)

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Effective date: November 2017, Version 1.1
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The information contained in this document serves as a guide.