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| **SKILLS FRAMEWORK FOR INFOCOMM TECHNOLOGY SKILLS MAP – ENTERPRISE ARCHITECT** | | | | | | |
| **Sector** | Infocomm Technology | | | | | |
| **Track** | Strategy and Governance | | | | | |
| **Sub-track** | Enterprise Architecture | | | | | |
| **Occupation** | Enterprise Architect | | | | | |
| **Job Role** | **Enterprise Architect** | | | | | |
| **Job Role Description** | The Enterprise Architect leads the ecosystem-wide technical and business discussions in respect to future enterprise direction, aligning architecture strategy with organisational goals. He/She leads and facilitate the development of governing principles to guide enterprise architecture decision making, and formulates the enterprise architectural requirements. He develops plans and assess improvement options and oversees the quality activities within the organisation. He establishes a technology research strategy and roadmap, oversees the research and evaluation of emerging technology, industry and emerging trends, and advises on options, risks, costs versus benefits, system impact and technology priorities.  He works in a dynamic and evolving business environment. He is knowledgeable of relevant enterprise architecture methodologies, frameworks and modelling tools, as well as information technology architectures and technologies. He is also familiar with organisational design frameworks, and process mapping tools.  The Enterprise Architect effectively synthesises diverse enterprise needs and perspectives, and is able to put forth original and fresh ideas, solutions and recommendations. He possesses superior leadership and communication abilities and is able to influence key stakeholders. | | | | | |
| **Critical Work Functions and Key Tasks** | **Critical Work Functions** | **Key Tasks** | | | | |
| **Formulate the organisation’s architecture strategy, roadmap, standards, policies and procedures, and governance** | Lead the ecosystem-wide technical and business discussions in respect to future enterprise direction | | | | |
| Align architecture strategy with organisational goals | | | | |
| Define principles that guide technology decisions and the relationship between industry and market trends and specified technology | | | | |
| Develop and communicate ecosystem-wide policies, standards, guidelines and procedures | | | | |
| Lead and facilitate the development of governing principles to guide enterprise architecture decision making | | | | |
| Manage exceptions to architectural standards at an enterprise level | | | | |
| Lead the enterprise architecture ecosystem-wide governance processes | | | | |
| **Develop architecture requirements and maintain oversight** | Formulate the enterprise architectural requirements | | | | |
| Identify reuse goals, opportunities and related explorations | | | | |
| Lead the development of software and data delivery platforms with reusable components that can be orchestrated together into different methods for different business | | | | |
| **Manage quality and continuous improvement of architecture** | Develop plans and assess improvement options | | | | |
| Approve modification of enterprise architecture to meet project needs | | | | |
| Oversee ongoing quality activities within the organisation | | | | |
| Champion improvement-related initiatives | | | | |
| **Research emerging technologies** | Advise on options, risks, costs versus benefits, system impact and technology priorities | | | | |
| Determine business requirements and the impact of technology trade-offs on strategy | | | | |
| Ensure projects are aligned with enterprise architecture | | | | |
| Develop communication plans for enterprise architecture | | | | |
| Establish a technology research strategy and roadmap | | | | |
| Oversee the research and evaluation of emerging technology, industry and emerging trends | | | | |
| Review and approve organisational requirements for resources and structures necessary to support initiatives | | | | |
| **Skills and Competencies** | **Technical Skills and Competencies** | | | **Generic Skills and Competencies** | | |
| Agile Software Development | | Level 6 | Decision Making | | Advanced |
| Business Agility | | Level 5 | Interpersonal Skills | | Advanced |
| Business Environment Analysis | | Level 5 | Leadership | | Advanced |
| Business Innovation | | Level 6 | Problem Solving | | Advanced |
| Business Performance Management | | Level 5 | Resource Management | | Advanced |
| Business Risk Management | | Level 6 |  | | |
| Change Management | | Level 6 |
| Design Thinking Practice | | Level 5 |
| Enterprise Architecture | | Level 6 |
| IT Strategy | | Level 5 |
| Networking | | Level 5 |
| Organisational Analysis | | Level 6 |
| Organisational Design | | Level 5 |
| Partnership Management | | Level 6 |
| Performance Management | | Level 6 |
| Project Feasibility Assessment | | Level 5 |
| Project Management | | Level 6 |
| Solution Architecture | | Level 6 |
| Stakeholder Management | | Level 6 |
| Strategy Planning | | Level 5 |
| Sustainability Management | | Level 5 |
| **Programme Listing** | For a list of Training Programmes available for the ICT sector, please visit: www.skillsfuture.sg/skills-framework/ict | | | | | |
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| The information contained in this document serves as a guide. | | | | | | |