

SKILLS FRAMEWORK FOR INFOCOMM TECHNOLOGY SKILLS MAP – SOLUTIONS ARCHITECT						
Sector	Infocomm Technology					
Track	Strategy and Governance					
Sub-track	Enterprise Architecture					
Occupation	Enterprise Architect					
Job Role		Solutions Architect				
Job Role Description	The Solutions Architect analyses, designs and develops roadmaps and implementation plans based on a current versus future state solutions architecture. He/She leads and facilitates the solutions architecture governance processes based on the enterprise architecture governance structure and manages exceptions to architectural standards at a solutions level. He assesses near-term needs to establish business priorities, analyses and develop solutions architectural requirements, and ensures alignment of architectural requirements with the IT strategy. He analyses the current architecture to identify weaknesses and identifies opportunities for improvement, and performs ongoing architecture quality review activities. He works in a dynamic and evolving business environment. He is familiar with enterprise architecture methodologies and frameworks, architecture modelling tools, as well as product development methodologies. He is knowledgeable about digital product development of industrial Internet of Things, applications and web services. He is also familiar with international telecommunications standards and protocols. The Solutions Architect is recognised as the most experienced and knowledgeable resources within the field in the organisation. He collaborates with other departments on architecting solutions design, and integrating diverse needs and perspectives to develop fresh ideas and solutions. He possesses strong leadership and					
	communication abilities, is creati	ve and innovative in nature, and is able to influence key stakeholders. Key Tasks				
		Lead and coordinate the domain technical and business discussions				
	Formulate the organisation's architecture strategy,	Participate in ecosystem strategy development, environment analyses and opportunity identification Analyse, design and develop roadmaps and implementation plans based on a current versus future state				
	roadmap, standards, policies and procedures, and	Design standard configurations and patterns				
	governance	Lead and facilitate the solutions architecture governance process based on the enterprise architecture governance structure				
		Manage exceptions to architectural standards at a solutions level				
		Review and approve recommendations to solutions architectural standards				
Critical Work		Analyse and develop solutions architectural requirements				
Functions and		Align architectural requirements with IT strategy				
Key Tasks		Assess near-term needs to establish business priorities				
	Develop architecture requirements and maintain	Ensure compatibility with existing solutions, infrastructure, services and strategic requirements				
	oversight	Coordinate architecture implementation and modification activities				
		Assist in post-implementation and continuous improvement efforts to enhance performance and provide increased functionality				
		Ensure conceptual completeness of the technical solution				
		Analyse the current architecture to identify weaknesses and develop				
	Manage quality and continuous improvement of	opportunities for improvement Identify and propose variances to the architecture to accommodate project				
	architecture	needs Perform ongoing architecture quality review activities				
		Consults with clients and IT teams on solutions architecture				
		Consults with Chefits and it teams on Solutions afchilecture				



		e SG AUTHORITY				
		Analys	ses cost versus be	nefits, risks, impact and tech	nology priorities	
		Provide recommendations on emerging technology to senior management				
	Research emerging technologies	Develo	op communication	plans for solutions architectu	ire	
		Lead the research and evaluation of emerging technology, industry market trends to assist in project development	ology, industry and			
		Identif	Identify organisational requirements for resources			
				viewpoint in which business, re synthesised into solutions	information and	
	Drive implementation of solutions architecture	Design	n and lead the imp	mentation of the solution architecture		
			repeatable rules f ole ways	for the implementation of solu	itions in repeatable or	
	Technical Skills and	Compe	etencies	Generic Skills and	Competencies	
	Agile Software Development		Level 5	Decision Making	Advanced	
	Applications Integration		Level 5	Interpersonal Skills	Intermediate	
	Business Agility		Level 4	Problem Solving	Intermediate	
	Business Environment Analysis	6	Level 4	Leadership	Advanced	
	Business Innovation		Level 5	Resource Management	Intermediate	
	Business Needs Analysis		Level 5			
	Business Performance Management		Level 4			
	Business Process Re-engineering		Level 5			
	Business Requirements Mapping		Level 5			
	Business Risk Management		Level 5			
	Change Management		Level 5			
Skills and	Data Visualisation		Level 5			
Competencies	Design Thinking Practice		Level 4			
	Embedded Systems Interface Design		Level 5			
	Emerging Technology Synthesis		Level 4			
	Enterprise Architecture		Level 4, Level 5			
	IT Strategy		Level 4			
	Networking		Level 4			
	Organisational Analysis		Level 5			
	Organisational Design		Level 4			
	Partnership Management		Level 5			
	Performance Management		Level 5			
	Process Improvement and Optimisation		Level 5			
	Project Feasibility Assessment		Level 4			
	Project Management		Level 5			



	Software Design	Level 5	
	Solution Architecture	Level 5	
	Stakeholder Management	Level 5	
	Strategy Implementation	Level 4	
	Strategy Planning	Level 4	
	Sustainability Management	Level 4	
	System Integration	Level 5	
Programme Listing	For a list of Training Programmes a framework/ict	available for the ICT se	ctor, please visit: www.skillsfuture.sg/skills-

The information contained in this document serves as a guide.