SKILLS FRAMEWORK FOR INFOCOMM TECHNOLOGY
SKILLS MAP – CHIEF TECHNOLOGY OFFICER

Sector	Infocomm Technology
Track	Strategy and Governance/Infrastructure/Software and Applications/Product Development
Occupation	Chief Information Officer/Chief Technology Officer
Job Role	**Chief Technology Officer**
Job Role Description	The Chief Technology Officer oversees all technical aspects of the organisation and partners with key stakeholders within the business to evaluate new IT opportunities. for growth. He approves the deployment of new technologies to enhance or develop new services and product offerings. He devises and implements long-term strategies focused on both current and new technologies that can help an organisation go to market more effectively, in turn increasing revenue through technological enhancements. He is an inspiring leader with a futuristic mindset with an ability to drive innovative enhancements in the organisation. He foresees connections across diverse areas and influence key stakeholder decisions.

	Critical Work Functions	**Key Tasks**
Critical Work Functions and Key Tasks	**Establish technology strategy**	Develop enterprise-wide digital strategy
		Develop a technology roadmap to align to the organisation's overall strategy and growth plans
		Influence strategic decisions on future business initiatives related to technology
		Provide leadership in identifying, assessing and managing technology needs within an organisation
		Advise senior leadership on business opportunities arising from technology developments
	Develop technology solutions	Provide leadership in the design and development of major technical initiatives
		Guide the final decisions on the feasibility of use of a technology solution for business implementation
	Manage portfolio of technology solutions	Govern the integration of all solutions to ensure smooth and efficient flow of information within the organisation
		Set objectives for IT investments, projects, services and activities to meet current and future business needs
	Enable innovation to improve organisation's goal	Act as a Technology Evangelist to explore and adopt appropriate technology
		Foster an environment conducive to innovation and technological change
		Set the direction for research as well as a framework for measuring innovation research outcomes
		Evaluate new approaches to redesign IT systems or optimise performance, quality and speed of services and/or products
	Manage stakeholders	Build strategic relationships and alliances with stakeholders
		Manage critical internal and external stakeholders' changes in needs and priorities
		Inspire stakeholders to pursue the organisation's technology vision
		Drive technology alignment with the organisation's business needs
	Manage people and organisation	Review operational strategies, policies and targets across teams and projects
		Develop strategies for resource planning and utilisation
		Review the utilisation of resources
		Oversee the development of learning roadmaps for teams and functions
		Establish performance indicators to benchmark effectiveness of learning and development programmes against best practices
		Implement succession planning initiatives for key management positions
		Advise stakeholders toward reaching compromises and agreeing on expectations

	Technical Skills and Competencies		Critical Core Skills	
Skills and Competencies	Business Continuity*	Level 6	Communication	Advanced
	Business Risk Management*	Level 6	Decision Making	Advanced
	Continuous Integration and Continuous Deployment*	Level 5	Developing People	Advanced
	Enterprise Architecture*	Level 6	Influence	Advanced
	IT Strategy*	Level 6	Transdisciplinary Thinking	Advanced
	Organisational Analysis*	Level 6		
	Organisational Design*	Level 6		
	Partnership Management*	Level 6		
	Portfolio Management*	Level 6		
	Solution Architecture*	Level 6		
	Stakeholder Management*	Level 6		
	Strategy Planning*	Level 6		
	Agile Software Development	Level 6		
	Applications Development	Level 5		
	Artificial Intelligence Application	Level 6		
	Automation Management	Level 6		
	Budgeting	Level 6		
	Business Agility	Level 6		
	Business Negotiation	Level 5		
	Change Management	Level 6		
	Emerging Technology Synthesis	Level 6		
	Learning and Development	Level 6		
	Networking	Level 5		
	People and Performance Management	Level 5		
	Performance Management	Level 6		
	Product Management	Level 6		
	Quality Standards	Level 6		
	Service Level Management	Level 6		
	Software Design	Level 6		
	Software Testing	Level 4		
	Sustainability Management	Level 6		
	System Integration	Level 6		
	Test Planning	Level 5		
Programme Listing	For a list of Training Programmes available for the ICT sector, please visit: www.skillsfuture.sg/skills-framework/ict			

The information contained in this document serves as a guide.
*Note: Technical Skills and Competencies (TSCs) with an asterisk (*) refer to Priority Skills (i.e., TSCs to be prioritised for this role).