

		RAMEWORK FOR INFOCOMM TECHNOLOGY P CHIEF INFORMATION SECURITY OFFICER	SG DEVELOPMENT AUTHORITY					
Sector	Infocomm Technology	P - CHIEF INFORMATION SECURITY OFFICER						
Track	Cyber Security							
Occupation								
	ICT Security Specialist							
Job Role	Chief Information Security Officer							
Job Role Description	The Chief Information Security Officer develops and drives the vision for the information security function. He/She acts as the authority for the development and enforcement of organisation security strategy, standards and policies, and has ultimate responsibility for ensuring the protection of corporate information. He guides the design and continuous improvement of the IT security architecture and Cyber Risk Maturity Model that balances business needs with security risks. He advises the board and top executives on all security matters and sets directions for complying with regulatory inquiries, legal and compliance regulations, inspections and audits. He is an expert in cyber security compliance standards, protocols and frameworks, as well as the Cyber Security Act 2018. He is keeps abreast of cyber-related applications and hardware technologies and services, and is constantly on the look-out for new technologies that may be leveraged on to enhance work processes, or which may pose as potential threats. The Chief Information Security Officer is an inspirational and influential leader, who displays sound judgement and decisiveness in ensuring that corporate information is well protected and secured. He is strategic in his approach toward resource management and capability development among his teams.							
Critical Work Functions, Key Tasks and Performance Expectations	Critical Work Functions	Key Tasks	Performance Expectations					
	Formulate information security strategy	Align information security and information risk management strategy with business strategy Provide strategic, budgetary and administrative advice for implementation of information security strategy Drive security awareness and education on information security throughout the organisation Advise senior management and key stakeholders on information security matters	Cyber Security Act 2018, Cyber Security Agency of Singapore					
	Establish security architecture Establish security architecture	Oversee the development of information security and risk management policies, disaster recovery and business continuity plans Evaluate current information security practices to ensure compliance with IT standards and industry norms Oversee the implementation of appropriate plans to ensure compliance with regulatory, industry and regional mandates Establish and implement cyber security legal risk rules and guidelines in line with industry norms and standards Drive information security and risk management awareness training programmes Oversee the design of cyber security architecture and the overall Cyber Risk Maturity Model Establish Key Performance Indicators (KPIs) to assess the effectiveness of the security architecture Facilitate the development of a framework to measure the effectiveness of security programmes						
	Manage cyber security incidents	Review security architecture to ensure that it addresses technology shifts and threats Act as a subject matter expert in cyber security investigations and analysis Drive resolution of large scale security incidents Lead the development of plans to address system vulnerabilities Advise on responses to regulatory inquiries, inspections or audits						



				SKILLSTMMES	G DEVELOPMENT
			•	on arising from cyber	
		security incid		de au a a a conite o ui al c	
		Oversee the development of cyber security risk assessment frameworks			
				on the different types of	
	Manage cyber security risks	Advise business stakeholders on the different types of cyber risks and incidents along with the cyber security			
		compliance standards			
		Oversee the	development and	testing of disaster recovery	
		and business continuity plans			
		1		onal and national information	
		-	privacy regulations		
		Act as the organisation's liaison w cyber security risk matters		i with external agencies in	
	Technical Skill	Technical Skills and Compe		Generic Skills and Co	ompetencies
Skills and Competencies					
	Audit and Compliance		Level 5	Leadership	Advanced
	Budgeting		Level 6	Global Mindset	Advanced
	Business Continuity		Level 6	Decision Making	Advanced
	Business Needs Analysis		Level 5	Transdisciplinary Thinking	Advanced
	Business Performance Management		Level 6	Sense Making	Advanced
	Business Risk Management		Level 6	_	
	Cyber Forensics		Level 6		
	Cyber and Data Breach Incident Management		Level 6		
	Cyber Risk Management		Level 6		
	Disaster Recovery Management		Level 6		
	Emerging Technology Synthesis		Level 6	_	
	IT Standards		Level 6		
	Learning and Development		Level 6		
	Manpower Planning		Level 5		
	Network Security		Level 5		
	Networking		Level 5		
	Partnership Management		Level 6		
	People and Performance Management		Level 5		
	Security Architecture		Level 5		
	Security Governance		Level 6		
	Security Strategy		Level 6		
	Stakeholder Management		Level 6		
	Strategy Planning		Level 6		
	Threat Analysis and Defence		Level 6		
	Threat Intelligence and Detection		Level 6		
Programme Listing	For a list of Training Prog framework/ict	rammes avail	able for the ICT se	ector, please visit: www.skillsfutu	ure.sg/skills-

The information contained in this document serves as a guide.

