

		FRAMEWORK FOR INFOCOMM TECHNOLOGY P - PRODUCT SECURITY ENGINEERING MANAGER	We SG AUTHORITY						
Sector	Infocomm Technology								
Track	Product Development								
Sub-track	Quality, Risk and Security								
Occupation	Product Security Specialist								
Job Role	Product Security Engineering Manager								
Job Role Description	The Product Security Engineering Manager guides the assessment of information and cyber risks associated with product development and provides recommendations on control requirements by risk policy and standards. He/She manages and coordinates responses to regulatory inquiries, inspections, audits and ensures cyber security standards and policies are established and implemented. He oversees the development of reports and implements policies and standards, as well as provide strategic direction on the monitoring and maintenance of security operations and incident response. He manages employees and is held accountable for the performance and results of a team. He guides security measures and protocols to stakeholders. He is familiar with cyber security standards, protocols, and frameworks, and ensures the organisation's compliance with the Cyber Security Act 2018. He uses various cyber security monitoring and analysis tools and techniques depending on the organisation's needs and requirements. He also uses cyber risk mitigation strategies and protocols to solve cybersecurity issues in products The Product Security Engineering Manager is sharp, analytical and anticipates cyber security risks in products to mitigate them ahead of time. He is an excellent communicator and promotes a cooperative working environment and relationships within and beyond his team.								
	Critical Work	Key Tasks	Performance						
Critical Work Functions, Key Tasks and Performance Expectations	Implement cyber security risk strategy for products	Manage the strategic development and improvement of risk frameworks, methodologies, and requirements for products Recommend strategies to address key risk areas in cyber security for each product Assess business needs for product launch against cyber security concerns and legal and/or regulatory requirements Provide strategic risk guidance to stakeholders in the implementation and execution of cyber risk strategies for products pre-launch and post-launch Manage the strategic development and improvement of cyber security risk frameworks, methodologies and requirements Formulate governance procedures for documenting and	In accordance with: Cyber Security Act 2018, Cyber Security Agency of Singapore						
	Establish cyber security standards and policies for products Manage cyber risks and assessments	updating security policy, standards, guidelines and procedures for products Plan the implementation of information systems and cyber security policies on products Develop the organisation's Cyber Risk Maturity model in application to product launches Develop policies and frameworks for conducting cyber security risk assessments and compliance audits on products Advise the development of techniques and procedures for the conduct of cyber risk assessments on products Develop plans for cyber risk assessment activities on products Coordinate the ongoing cyber risk assessment activities for existing and new products Provide strategic and technical recommendations following							



				SKILLS	1630	AUTHORITY	
	Incorporate emerging security and risk management						
		· ·	•	ne risk assessment			
			· · · · · · · · · · · · · · · · · · ·	es and new products			
		Advise the de					
			sments on products				
		Develop programmes and initiatives to strengthen the					
	Mitigate cyber security risks and respond to cyber security incidents	capability to mitigate risks in existing products and new					
		launches					
		Oversee prioritisation of alerts and resources for incident					
		responses on products					
		Oversee the planning and conduct of organisational cyber					
		security exercises for products					
		Act as a subject matter expert in cyber security incident and breach investigations and post-breach remediation					
			vestigations and p				
		work					
		Propose procedures to prevent future incidents and					
			r security in produ				
		Review operational strategies, policies and targets across teams and projects					
	Manage people and	Develop strategies for resource planning and utilisation					
	organisation	Review the ut	ilisation of resourc	ces			
		Oversee the development of learning roadmaps for teams					
		and functions	nd functions				
	Technical Ski	IIs and Compe	etencies	Critical Core	e Skills		
	Audit and Compliance*		Level 4	Decision Making	ı	Intermediate	
	Cyber and Data Breach Incident Management*		Level 4	Developing People	ı	Intermediate	
	Cyber Risk Management*		Level 5	Problem Solving		Advanced	
	Data Analytics*		Level 4	Sense Making	aking Intermediate		
	Data Governance*		Level 4	Transdisciplinary Thinking	'	Intermediate	
	IT Governance*		Level 5	_			
	Learning and Development*		Level 4				
	Manpower Planning*		Level 4				
	Network Security*		Level 5				
Skills and Competencies	Networking*		Level 4				
	Partnership Management*		Level 4				
	People and Performand Management*	ce					
	Security Administration	*	Level 4				
	Security Education and Awareness*		Level 5				
	Security Governance*		Level 5				
	Security Programme M	Level 4					
	Agile Software Develop	oment	Level 4				
	Al Ethics and Governance		Level 3				
	Applications Development		Level 4				
	Budgeting		Level 5				
	Business Continuity		Level 5				

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	Business Needs Analysis	Level 4			
	Cyber Forensics	Level 3			
	Process Improvement and Optimisation	Level 4			
	Product Management	Level 3			
	Quality Standards	Level 4			
	Software Design	Level 4			
	Software Testing	Level 4			
	Stakeholder Management	Level 4			
	Strategy Implementation	Level 4			
	Strategy Planning	Level 5			
	Test Planning	Level 4			
	Threat Analysis and Defence	Level 3			
	Threat Intelligence and Detection	Level 3			
Programme Listing	For a list of Training Programmes ava	ailable for the ICT s	ector, please visit: v	vww.skillsfuture.	sg/skills-

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).