

SKILLS FRAMEWORK FOR INFOCOMM TECHNOLOGY TECHNICAL SKILLS & COMPETENCIES (TSC) REFERENCE DOCUMENT

TSC Category	Operations and User Sup	port							
TSC Title	Cyber and Data Breach Incident Management								
TSC Description	Detect and report cyber and data-related incidents, identify affected systems and user groups, trigger alerts and announcements to relevant stakeholders and efficient resolution of the situation.								
TSC Proficiency Description	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			
		ICT-OUS-2003-2.1 Provide real-time incident	ICT-OUS-3003-2.1	ICT-OUS-4003-2.1	ICT-OUS-5003-2.1	ICT-OUS-6003-2.1 Drive cross-collaboration			
		and status reporting, and identify affected systems and user groups	Troubleshoot incidents, escalate alerts to relevant stakeholder, and analyse root causes and implications of incidents	Develop incident management procedures and synthesise incident- related analyses to distil key insights, resolve incidents and establish mitigating and preventive solutions	Formulate incident response strategies and direct teams in the remediation, resolution, communication and post-mortem of large-scale, unpredictable cyber and data incidents	efforts to co-develop strategies to manage cyber and data incidents on an industry, national or international scale			
Knowledge		 Incident detection and reporting protocols Types of security incidents Types of data breaches Categorisation guidelines for incidents Impact of incidents on systems and users Personal Data Protection Act 2012 	 Prioritisation criteria for incidents Tools and processes used to remedy incidents Root cause analysis procedures Security implications of incidents Personal Data Protection Act 2012 	 Incident mitigation strategies Personal Data Protection Act 2012 	 Industry standards and best practices in incident management Key components of an incident management playbook Criteria and requirements of an incident response team Cyber incident mitigation strategies Data breach mitigation strategies Key stakeholder groups Post-mortem processes related to cyber incidents Personal Data Protection Act 2012 				



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Abilities		 Maintain a tracker or log of incidents to provide real-time status reporting on affected systems Report incidents, in line with incident management protocols Gather relevant information about incidents Categorise the importance of incidents based on established guidelines Identify the systems and user groups affected by the incident based on information gathered Assist in mitigation of repeat incidents as directed Document the modifications made to troubleshoot and resolve problems or incidents in the system 	an incident, and determine its priority and need for escalation Escalate alerts to relevant stakeholder groups upon the occurrence of incidents Perform first responder troubleshooting on cyber-related, datarelated or security incidents, by following pre-determined procedures Analyse incident reports, log files and affected systems to identify threats and root causes of incidents Perform incident triage to assess severity of incidents and security implications Implement approved processes or	 Develop mechanisms or threat signatures that trigger incident alerts to relevant parties and systems Integrate cyber- and data-related information, alerts and analysis from detection system logs to develop a holistic view of incidents Distil key insights and impact from analyses of incidents Manage the containment of cyber and data incidents within the organisation Lead recovery of contained security incidents Establish mitigation and prevention processes and policies Drive implementation of mitigation processes and 	 Lead the remediation and resolution of cyber and data incidents at the organisational level Resolve large-scale, unpredictable incidents Make key decisions on when and how to communicate incidents to different critical stakeholders Direct post-mortem activities following critical incidents Develop organisation-wide cyber and data 	 Direct the management of cyber and data incidents on an industry, national or international scale Manage incidents to minimise significant reputational risk to the organisation Lead collaboration across industries to manage large-scale cyber and data security incidents Co-develop cyber and data incident management strategies on a national level with external experts and stakeholders Lead critical communications to the public, authorities, internal and external stakeholders
	For Data Protection-related pro	grammes, please refer "Guide	processes or technologies to mitigate future incidents de to Develop Training Courses for	policies	incident mitigation strategies	ommission (PDPC),