

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

TSC Category	Operations and User Support							
TSC Title	Security Administration							
TSC Description	Administer, configure and update of security programmes and mechanisms, including the application of system patches to ensure that enterprise assets are adequately protected against threats. This also includes the authorisation, management and monitoring of access control permissions and/or rights to various IT facilities							
TSC Proficiency	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
Description		ICT-OUS-2012-1.1	ICT-OUS-3012-1.1	ICT-OUS-4012-1.1				
		Run system diagnostic tools,	Administer, configure and	Plan the administration and				
		and install and update	troubleshoot security	technical operationalisation				
		simple, basic security	programmes and	of security programmes, and				
		programmes, virus	mechanisms, and analyse	investigate security				
		protection and system	impact of patches and	breaches in information,				
		patches	updates on system and	system and network access				
			networks					
Vnowledge		Basic concepts and	Complexities in system	End-to-end security				
Knowledge		processes of system	and network	administration processes				
		administration	administration	Range of tools and				
		Available system	Methods of configuration	techniques to enhance				
		updates and patches	for a range of software	website security				
		Use of system and	and hardware	Emerging security issues				
		network diagnostic tools	Security software	and threats				
		Configuration	troubleshooting	Security weaknesses of				
		procedures	techniques	installed infrastructure				
		Preventative	 Principles of access 	Key principles of user				
		maintenance procedures	•	access management				
		· ·	 Process of investigation 	and control				
		Access rights management processes	for security breaches					
		management processes		Implications of various levels of user access				
		Indicators of security and	and unauthorised access					
		access anomalies		Diagnosis of security				
				breaches				
Abilities		Administer security	Administer new and	Facilitate the				
		programmes and	complex security	administration and				
		updates	programmes for the	technical				
		Install standard system	organisation	operationalisation of				
		patches to maintain a	Analyse the impact of	security programmes				
		secure system	patches and updates on	Plan the installation of				
		environment	current system	relevant hardware,				
		Run system and network		software and operating				
		diagnostic tools	system /and network	systems to protect the				
		according to	administration and	organisation against				
		specifications	configuration of security	threats				
			mechanisms					



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	 Modify system configuration as indicated by the system diagnostic tools Scan the system and networks periodically to check and maintain virus protection Apply basic access rights and permissions on a day to day basis, according to established protocols 	 Configure authentication software and features of network devices as required to protect against security threats Perform post-implementation troubleshooting of security software Assist users in defining and clarifying their access rights and privileges 	administration plans and relevant personnel in view of new and emerging cybersecurity policies and security threats Manage security administration processes
	 Follow prescribed protocols to assess rules, access controls and configurations to report suspected anomalies Assist in investigation of issues relating to security systems and access controls 	 Coordinate complicated access control rights, permissions and escalated issues Investigate unauthorised access incidents according to established procedures 	 Establish access control rules and permissions, aligned with organisational priorities and security parameters Facilitate organisation-
			managing user access Grant permissions for role-based access requests, based on their compliance with organisational standards and procedures
			Investigate significant security breaches in information and system or network access and recommend required action
Range of Application			