

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

TSC Category	Design and Architecture					
TSC Title	Security Architecture					
TSC Description	Design security architectures and controls; either embedding of security principles into the design of architectures to mitigate the risks posed by new technologies and business practices, or the actual design and specification of implementable security components, along with the accompanying control measures, to meet defined business security needs					
TSC Proficiency Description	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
			ICT-DES-3004-1.1	ICT-DES-4004-1.1	ICT-DES-5004-1.1	
			Design secure systems and	Design a security blueprint	Establish organisational	
			define security specifications	and direct the design of a	guidelines and principles for	
			of components, integrating	robust and coherent security	the design of security	
			appropriate security controls	architecture, based on a	architecture and controls,	
				suite of security solutions	and drive the enhancement	
				and key design principles	of organisation-wide security	
					systems	
Knowledge			Security threats and	Emerging security	Industry best practices in	
			vulnerabilities facing IT	threats and impact on IT	security architectures	
			systems	systems	and systems design	
			Security assurance and	 Key components of 	Emerging trends in the	
			functional requirements	security system blueprint	industry and potential	
			Security system	 Principles of security 	impact on enterprise	
			components	system integration	architecture and security	
			Elements and workings	Range of system	Key criteria for	
			of security controls	security tests and	determining required	
			Goals and purpose of	interpretation of results	level of security controls	
			security controls	Evaluation guidelines for	New and emerging	
			Common specifications	system architecture	security system design	
			and designs for secure	security	methodologies, tools and	
			The state of the s		techniques	



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Abilities	Identify key security risks and problems posed by new technologies and business practices Design secure systems and controls based on IT architectural guidelines and requirements Define security specifications of system components, that address security objectives and functional requirements Incorporate controls into security breaches or lapses Check for an adequate level of security robustness in system designs Check for an adequate level of security robustness in system designs Review security system architecture Define overarching security system blueprint targets Incorporate controls into security system components to minimise security breaches or lapses Check for an adequate level of security robustness in system designs Check for an adequate level of security robustness in system designs Check for an adequate level of security systems and architecture based on organisational guidelines and principles for the design of system architecture and controls Review security system industry best practices and business security needs Define overarching security system design of new organisational guidelines and principles for the design of system architecture and controls Review security system industry best practices and business security needs Define overarching security system design or principles to develop a control plan for the security systems. Develop a control plan for the security systems and architecture against industry best practices and business security required architecture. Plan design of organisation-wide security controls that are in line with the organisation's security system design or strengthened security system design or strengthened security system design methodologies, tools and techniques to the organisation Review systems' security system sond architecture and institute the design of the organisation or strengthened security systems and architecture against industry best practices and businessecurity researches or security systems an
Range of Application	