

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

TSC Category	Development and Implementation							
TSC Title	Cloud Computing							
TSC Description	Implement cloud solutions to enhance business performance and security of IT systems							
TSC Proficiency Description	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
			ICT-DIT-3020-1.1	ICT-DIT-4020-1.1	ICT-DIT-5020-1.1	ICT-DIT-6020-1.1		
			Deploy cloud solutions and resolve cloud integration issues	Develop plans to implement cloud solutions	Evaluate the suitability of cloud solutions against organisational requirements and business needs	Build actionable strategy plans and policies for the introduction and adoption of cloud solutions across the organisation		
Knowledge			 Security and quality standards Diagnostic tools for cloud-related problems Types of installation tests for cloud solutions Technical solutions or techniques to resolve cloud integration-related issues Database administration and maintenance tools and techniques 	 Requirements for implementation of cloud solutions Impact analysis techniques for cloud solutions Types of cloud platform integration tools and techniques Range of installation tests and techniques for cloud solutions Steps to align existing systems with cloud computing components Elements and functioning of automated software deployment Scripting and programming languages Big data tools and techniques Range of cloud computing platforms, software and services 	 Interactions between various cloud and on-site components and systems Impact of cloud component additions, changes or removals to the organisation infrastructure and operations Cloud solutions and associated components Cloud specifications and implementation techniques Cloud computing migration protocols and strategies Trends and technologies in cloud solutions Industry standards and protocols related to cloud solutions Methods to evaluate the suitability of cloud solutions Cost-benefit analysis techniques 	 Objectives of cloud solutions adoption and implementation in the organisation Industry best practices in cloud solutions, technologies and implementation processes Business impact of cloud deployment, modification, and migration Organisational requirements and business needs Trends and technologies in cloud solutions 		
Abilities			Set up environment for	Assess the performance	Evaluate organisational	Project current and		
			the implementation of	of cloud solutions based	requirements and	future cloud computing		



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

		cloud solutions in accordance to user requirements Run tests for cloud solutions to minimise integration-related issues Detect issues with cloud solutions to identify solutions Resolve cloud integration and implementation issues Conduct implementation tests on cloud solutions to measure its effeciveness against defined metrics Escalate unresolved issues related to implementation of cloud	on expected business needs, usage and traffic volume • Draft specifications for cloud solutions to address usage, performance and security requirements • Develop implementation plans for implementing cloud solutions • Develop processes for the review of metrics associated with implementation of cloud solutions • Resolve escalated issues related to implementation of cloud solutions	 business needs for cloud solutions Evaluate new and emerging cloud solutions to determine its efficacy and suitability against organisational requirements Review performance of cloud solutions Evaluate the benefits and challenges of using cloud solutions Develop costing for technology requirements for implementation of cloud solutions Draft recommendations for the introdution of cloud solutions 	experimentation and innovation in the adoption and usage of cloud solutions • Determine the purpose and functions of adopting and implementing cloud solutions at an organisational level
Range of Application	Cloud Computing services and skills may ir Amazon Web Services (AWS) Microsoft Azure Google Cloud Platform Apache Hadoop Python Scala Python Perl Ruby MongoDB MySQL PHP Java Microsoft .NET Framework	clude but not limited to:			Endorse recommendations on proposed cloud solutions