

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

TSC Category	Operations and User Support											
TSC Title	Data Migration											
TSC Description	Plan and perform activities to migrate data between computer storage types or file formats											
		Level 2	Level 3 ICT-OUS-3005-1.1 Prepare data and perform manual or automated data migration, troubleshoot database errors faced, and validate migrated data post-migration to ensure accuracy • Manual data migration procedures • Types, categories and usage of data movers including host-based software, array-based software and network appliances • Usage of database migration tools • Duration of different data migration processes and downtime required • Potential risks to the business from data migration activities • Data corruption, application performance issues, missed or lost data, and other potential technical compatibility issues related to data	Level 4 ICT-OUS-4005-1.1 Determine the business need for data migration and plan data migration activities, establishing guidelines and strategies to minimise impact on daily business operations • Key drivers and objectives of data migration • Industry best practices and methodologies for data migration • Emerging trends in data migration and management • Data migration and database management system software and tools • Applications, pros and cons of data migration and database management system software and tools • Impact of data migration on daily business operations • Applications of different	Level 5	Level 6						
			migration • Methods of cleaning and validating data	data movers for different contexts and purpose • Scheduling, replication, hardware, data volume and data value requirements for data migration								



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Abilities	Perform extra	-	•	Determine the business	
	transformation			need for data migration	
	duplication of		•	Gather impact of data	
	before migrati			migration activities on	
	 Install migration 			business operations and	
	and configure	•		other potential risks or	
	hardware acc	ording to		costs	
	the communic	ated data	•	Formulate a data	
	migration plan	l		migration plan to	
	 Apply tools to 	automate		facilitate the transfer of	
	and accelerate	e the data		data to new storage	
	migration prod	ess,		types, formats or	
	according to a	data		computer systems	
	migration plan		•	Communicate	
	 Perform stand 	lard		methodologies for data	
	manual transf	er of data		migration	
	to new storage	e types,	•	Determine appropriate	
	formats or sys	tems		database management	
	according to c	lata		and migration tools and	
	migration inst	ructions		system software to be	
	 Apply data mi 	gration		used, in ensuring they	
	policies to mo	ve data in		are fit for organisational	
	an orderly ma	nner		purposes	
	 Troubleshoot 	database	•	Manage the installation	
	errors or prob	lems faced		of migration software	
	in database m	igration		and the configuration of	
	activities			required hardware	
	 Validate the m 	nigrated	•	Develop strategies to	
	data to ensure	-		minimise impact of data	
	 Document the 	-		migration on daily	
	migration prod			business operations	
			•	Set guidelines for	
				migration documentation	
				to facilitate tracking	
			•	Validate post-migration	
				statistics to determine	
				data accuracy	
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Range of Application					