

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

TSC Category	Strategy Planning and Implementation					
TSC Title	Data Strategy					
TSC Description	Develop a robust and coherent data strategy and support architectures, policies, practices and procedures that enable the organisation to manage and utilise data in an effective manner. This includes introduction of innovative ways of organising, managing and integrating the data of the organisation to ensure their viability and ability to drive business value. It also includes the setting of information storage, sharing, handling and usage protocols to support alignment with relevant legislation and business strategies					
TSC Proficiency Description	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
				ICT-SNA-4009-1.1	ICT-SNA-5009-1.1	ICT-SNA-6009-1.1
				Develop data management structures and recommend policies, processes and tools for effective data storage, handling and utilisation	Establish data management strategies to extract maximum value from information assets and support decision-making and business processes	Define a coherent data strategy and spearhead new approaches to enrich, synthesise and apply data, to maximise the value of data as a critical business asset and driver
Knowledge				<ul style="list-style-type: none"> Data management structures Information handling approaches Data management standards and tools Typical protocols in information asset management Internal and external information management guidelines and rules 	<ul style="list-style-type: none"> Data architecture design and formulation Information or data flows of a business Data structure design Types of information assets and their business value Data management approaches and frameworks, and their pros and cons Existing, new and revised internal and external information regulation policies and requirements Knowledge of a specific industry domain 	<ul style="list-style-type: none"> Key considerations and components of a data strategy Principles of data architecture design Industry standards and best practices in enterprise-level data governance, control and policies Internal and external data regulations in relation to customers, ownership and usage Principles and techniques of data exploitation and utilisation Relevance and application of Internet of Things concept In-depth knowledge of a specific industry domain, and related industries
Abilities				<ul style="list-style-type: none"> Define data management structures to align and streamline 	<ul style="list-style-type: none"> Establish data standards, internal processes and 	<ul style="list-style-type: none"> Establish a coherent data and analytics strategy, determining the

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				<p>processes of data ownership, retrieval, combination and usage</p> <ul style="list-style-type: none"> • Plan processes for effective data storage, sharing and utilisation within the organisation • Update policy, standards and procedures on data management for compliance with relevant legislation • Introduce relevant standards and tools that can be applied to the management and treatment of critical data • Identify gaps, inefficiencies and potential risks in existing data management processes • Propose enhancements or modifications to data handling procedures • Establish internal processes to monitor compliance of information or data handling and access requests with approved procedures • Provide ongoing advice to ensure proper adoption of and adherence to data policies and information architectures 	<p>structures to enable the organisation to maximise value from data and information assets</p> <ul style="list-style-type: none"> • Direct the capturing, retention and utilisation of critical data • Oversee the organisation's data architecture, including the monitoring and management of data flows • Manage usage of various forms of data to support decision-making and business processes • Anticipate the current and future information lifecycle needs of an organisation • Establish the organisation's data management strategy • Develop corporate Standard Operating Procedures (SOP), protocols and standards for data management, sourcing, handling and treatment • Establish guidelines for effective data storage, sharing and publishing within the organisation 	<p>use of new, existing and legacy information assets</p> <ul style="list-style-type: none"> • Define the kinds of data the organisation should capture, retain and utilise • Create the processes and systems required to capture, retain and utilise critical data • Articulate the strategic value of data in the organisation and its role as a critical business asset and driver • Design the overarching data architecture for the organisation, including the definition of data flows and principles of data governance • Lead strategic utilisation and exploitation of data assets to generate business value for the organisation • Spearhead new strategies and approaches to enrich, fuse or synthesise data • Establish bird's eye view of data connections across and beyond the organisation • Chart direction on the integration and synthesis of different data pieces to draw trends and representations • Ensure alignment of information management strategy with business direction, considering
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						evolving business risks and potential liabilities
Range of Application						