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

TSC Category	Business and Project Management					
TSC Title	Emerging Technology Synthesis					
TSC Description	Monitor and integrate emerging technology trends and developments, structured data gathering for the identification of new and emerging technological products, services and techniques. In addition, the performance of cost-benefit analysis and evaluation of their relevance, viability, sustainability and potential value add to the business					
TSC Proficiency Description	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
			ICT-SNA-3011-1.1	ICT-SNA-4011-1.1	ICT-SNA-5011-1.1	ICT-SNA-6011-1.1
			Conduct research and identify opportunities for new and emerging technology to support the business	Evaluate new and emerging technology and trends against the organisational needs and processes	Establish internal structures and processes to guide the exploration, integration and evaluation of new technologies	Establish an emerging technology strategy and spearhead organisational norms to synthesise and leverage new technologies and trends to propel business growth
Knowledge			- Market scanning and research techniques for emerging technology - Similar or relevant industries - New technologies and IT products and services in the market - Typical business process flows	- Current industry and technology information sources - Industry-accepted hardware and software products - Emerging trends in technological products and services in the IT industry - Cost-benefit analysis and evaluation methods for assessing new technologies - Business process flows and interdependencies	- Key sources of information on new technologies in adjacent, competing or relevant industries - Risk analysis of the new technologies, and implications on legal, ethical or security dimensions of the business - Change management and implementation considerations relating to introduction of new technologies - Business priorities, planning, value chain and key processes - Current and future impact analysis	- Critical elements of an emerging technology blueprint - Short and long-term impact of new and emerging technologies - Trends and developments in adjacent industries - Potential impact and disruptions to process norms in the Infocomm Technology (ICT) industry or field - Strategic partnership and alliance development

Abilities			• Explore relevance of technologies or IT processes in use and under development in other industry sectors • Conduct research on new technologies • Assess potential of emerging technologies to address challenges or enhance processes within the organisation • Identify processes that will be improved by the application of new and emerging technologies and approaches • Put forth recommendations or options of technology models that offer process improvement	• Determine the suitable sources and relevant sectors or industries to explore new technologies in detail • Monitor the market to keep abreast of new technologies that will impact the ICT market • Evaluate emerging technology against the existing business needs and infrastructure in a nimble and iterative manner • Review market research and validate the new technologies against the organisational needs • Provide recommendations with strong rationale for the outcome of the evaluation • Communicate with external partners to obtain and explore emerging technologies	• Lead the identification and evaluation of new and emerging technologies, techniques and models • Decipher impact of new and emerging technologies on business operations • Experiment with the integration of new and emerging technology into the existing business context • Establish internal processes and guidelines to facilitate the research on and evaluation of new technologies • Establish organisational need and selection criteria for new technologies • Articulate the business considerations and parameters relating to the adoption of new technologies • Manage collaborations with external partners to gain access to and explore emerging technologies	• Develop an emerging technology strategy and blueprint • Harness new technologies and trends in moulding business strategy • Decipher the impact of emerging technology on the ICT industry or field • Establish organisational norms of evaluating emerging technologies in a rapid, nimble and iterative manner • Synthesise different emerging technologies and trends into initiatives or products that propel business growth • Establish alliances to facilitate emerging technology exploration across organisations • Build strategic partnerships with organisations and suppliers to optimise access to new and emerging technology • Create thought leadership around emerging technologies and their impact
Range of Application			Contexts in which this skill may be applied includes, but is not limited to: • Overall business operations • New IT products or services • IT operations • Marketing function • Sales function			