

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

TSC Category	Development and Implementation								
TSC Title	Data Visualisation								
TSC Description	Implement contemporary techniques, dynamic visual displays with illustrative and interactive graphics to present patterns, trends, analytical insights from data or new concepts in strategic manner for the intended audience								
TSC Proficiency Description	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			
			ICT-DIT-3006-1.1	ICT-DIT-4006-1.1	ICT-DIT-5006-1.1				
			Select appropriate	Design data displays to	Establish an effective data				
			visualisation techniques and	present trends and finding,	visualisation architecture				
			develop dashboards to	incorporating new and	and design intelligent and				
			reflect data trends and	advanced visualisation	adaptable displays				
			findings	techniques and analytics	employing optimal delivery				
				capabilities	modes, mechanisms and				
					timings				
Knowledge			 Interpretation of data analysis and findings Types of information displays Suitability of different data representations and visual displays for different contexts Data visualisation tools and techniques Elements of data dashboards 	 New data visualisation tools and techniques Range of methods to portray data patterns, trends and correlations Dashboard development process and techniques Features of data displays Strategic visualisation and mapping techniques 	 Emerging trends and developments in data visualisation Strategic elements and considerations in a data presentation architecture Modes and mechanisms for data delivery Intelligent data dashboard design methodologies and techniques 				
Abilities			 Select appropriate visualisation techniques and information displays to convey data and findings Organise the presentation of data to reflect trends and correlations in a visually compelling way Incorporate appropriate elements to create informative and dynamic data displays 	 Introduce new or emerging visualisation tools and techniques that are fit for purpose Exercise judgement on the presentation of data to ensure that critical trends and findings are presented in the optimal way Develop dashboards and scorecards incorporating advanced visualisation techniques and embedding analytics 	 Establish an effective data presentation architecture to address critical business questions Integrate latest developments in data visualisation tools, techniques and methodologies Determine suitable data presentation delivery modes and mechanisms, tailored to key 				
			informative and dynamic	advanced visualisation	modes and mechanisms,				



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		scorecards to display internal as well as external benchmark data Incorporate interactive graphics, visuals and technical features into the data presentation Communicate limitations of data and interpretations of findings	questions from key stakeholders are addressed • Design features of data displays including navigation, layout, user interface and user experience of interactive graphics • Align interpretation and presentation of data analytics findings with	 Make decision on the optimal timing for presentation and updates of data and trends on dashboards and systems Design intelligent data dashboards and customisable visual displays Lead efforts to interpret and present explanations for counterintuitive patterns or findings 	
Range of Application	Data visualisation tools may include, but are not limited to: • Tableau • HTML/CSS • SAS Visual Analytics • R Data visualisation techniques may include, but are not limited experience of the charts • Network diagram • Map frequency chart	I to:	subject matter experts		