

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

TSC Category	Operations and User Sup	port				
TSC Title	Cyber Forensics					
TSC Description		tal forensic investigation and report dence in line with standard procedu			ractices to be used. This include	es the collection, analysis and
TSC Proficiency	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
Description		ICT-OUS-2002-1.1	ICT-OUS-3002-1.1	ICT-OUS-4002-1.1	ICT-OUS-5002-1.1	ICT-OUS-6002-1.1
		Scan, retrieve and preserve digital evidence from various sources, following authorised protocols	Coordinate the collection and preservation of evidence and analyse forensic evidence to draw inferences	Develop a digital forensic investigation plan, and integrate analysis of evidence, outlining key conclusions, insights and recommendations	Establish digital forensic investigation policies and protocols for the organisation, and manage multiple investigations	Define new cyber forensics tools, techniques and methodologies and lead cyber forensics investigations on an international scale
Knowledge		 Types of data devices and storage Features of the different type of data services storage Types types of computer, network and mobile evidence Computer forensic hardware and software tools Procedures used to acquire, preserve and maintain integrity of evidence Safe handling techniques to prevent contamination or tampering of evidence for different IT systems 	 Potential internal and external data sources Range of analytical techniques to examine digital evidence Broad range of computer, network and mobile forensic tools and techniques Statistical analysis procedures used to identify trends Legal principles and regulations in relation to forensic investigations 	 End-to-end process and procedures in a forensics investigation Critical milestones and touchpoints in a forensics investigation Emerging and specialised forensic tools, solutions and methodologies Changes and updates to regulatory or legal requirements Implications of regulatory and legal parameters on forensic investigations 	 Evolving trends in forensic investigation New and emerging trends in the Infocomm Technology or related fields Impact and consequences of forensics investigation policies and protocols on the organisation 	 Cyber forensics tool development Cyber forensics process development International considerations and implications of cyber forensics investigations and activities
Abilities		Access evidence from electronic devices using various forensic tools Extract digital evidence from various sources, following authorised protocols Use forensic tools to back up and preserve	 Monitor a range of internal and external data sources to identify relevant information to incident at hand Coordinate the collection and preservation of digital evidence 	 Develop a digital forensic investigation plan, including the tools, processes and methodologies to be used Assess suitability of new and emerging forensic 	 Establish digital forensic investigation policies and standards for the organisation Develop protocols and Standard Operating Procedures (SOP) for investigation procedures including guidelines for 	 Chart direction for new cyber forensics techniques and methodologies Establish cyber or digital forensic tools for adoption



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Analyse patents and correlations of events data to draw conclusions Present digital forensic findings in an appropriate format which complies to legal and company regulations Present digital forensic findings in an appropriate format which complies to legal and company regulations Present digital forensic findings in an appropriate format which complies to legal and company regulations Present digital forensic determine the underlying causes and effects of incidents Present investigation activities and forensic analysis to determine the underlying causes and effects of incidents Present reports and outcomes in significant investigations, involving interaction with large data sets, operating systems or networks Review multi-source evidence and conclusions drawn in light of broader trends and contextual considerations Develop a report to documents the findings, conclusions and recommendations Pange of Application	evidence to prevent tampering Store original and copied evidence in safe environments with limited access • Examine digital evidence to identify patterns and suspicious or unauthorised activity • Analyse forensic evidence and document inferences • Analyse patterns and suspicious or unauthorised activity • Analyse patterns and suspicious or unauthorised activity • Analyse patterns and service to identify patterns and suspicious or unauthorised activity • Analyse forensic evidence and document inferences • Analyse patterns and suspicious or unauthorised activity • Analyse forensic evidence and document inferences • Examine digital evidence to identify patterns and suspicious or unauthorised activity • Analyse forensic evidence and document inferences • Determine the key tasks, timelines, milestones and accountabilities for a specific forensic investigation activities for investigation activities for investigation activities for investigation activities for forensic investigation activities for forensic teams
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