

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

TSC Category	Operations and User Support					
TSC Title	Network Administration and Maintenance  Monitor network in order to provide for optimum levels of network performance and minimisation of downtime. This includes detection, isolation, recovery and limitation of the impa					
SC Description						
SC Proficionay	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
TSC Proficiency Description	ICT-OUS-1009-1.1	ICT-OUS-2009-1.1	ICT-OUS-3009-1.1	ICT-OUS-4009-1.1		
	Document network	Monitor network	Review, optimise and align	Assess network capabilities		
	performance levels, and	performance, investigate	network performance with	and set network rules to		
	identify and isolate network	and resolve network faults	business needs, and	support software-defined		
	faults	or downtime	program basic rules into	infrastructure and optimise		
			Software-Defined	performance in changing		
			Networking (SDN)	environments		
			applications			
nowledge	<ul> <li>Processes in network performance tracking over a time period</li> <li>Standard processes and techniques for network fault detection, identification and isolation</li> <li>Network maintenance tools and processes</li> <li>Communication channels for dissemination of network updates or information</li> </ul>	<ul> <li>Assessment and analyse network performance</li> <li>Different kinds of network faults and failures</li> <li>Potential causes and impact of network faults or downtime</li> <li>Network fault detection, identification, isolation and limitation techniques</li> <li>Fault resolution techniques for a range of different network issues</li> <li>Critical information in communication of network updates to users</li> </ul>	<ul> <li>Impact of network performance on business operations</li> <li>Best practices in network administration and maintenance</li> <li>Priorities and dependencies in communication of network updates or information</li> <li>Concept of network virtualisation</li> <li>Programming languages for software-defined applications</li> <li>Indicators of software-defined network</li> </ul>	<ul> <li>Industry best practices in fault detection, isolation and recovery in the context of network administration</li> <li>Network resource and capability requirements to support software-defined infrastructure</li> <li>Network virtualisation management and monitoring</li> <li>Multi-tier networking</li> <li>Range of network rules and programming codes</li> <li>SDN program development</li> <li>Semantics of different</li> </ul>		



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Range of Application	Types of networks may include but are not limited to:				
	LAN network (e.g., SOHO network, WLAN)				
	Radio network				
	Telecommunications network				
	Next generation network (NGN)				
	Wide area network (WAN)				
	Cloud based network				