

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

| TSC Category | Development and Implementation | | | | | |
|-----------------|--|---------|---------|------------------------------------|--|---------|
| TSC Title | Network Slicing Create logically partitioned networks from a shared infrastructure to provide optimised and customised services for different users based on service level agreements | | | | | |
| TSC Description | | | | | | |
| TSC Proficiency | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 |
| Description | | | | ICT-DIT-4025-1.1 | ICT-DIT-5025-1.1 | |
| | | | | Design and maintain | Configure network slices to | |
| | | | | network slices to fulfil | support multiple end-user | |
| | | | | customers' needs | services | |
| Knowledge | | | | Network Functions | Network slicing | |
| | | | | Virtualisation (NFV) | optimisation | |
| | | | | Software Defined | Guaranteed Quality of | |
| | | | | Networking (SDN) | Service (QoS) and Key | |
| | | | | Virtual Network Function | Performance Indicators | |
| | | | | (VNF) | (KPIs) | |
| | | | | Radio Access Network (BAN) | Network Functions Virtualization (NEV) | |
| | | | | (RAN) and Core Network | Virtualisation (NFV) | |
| | | | | (CN) | Software Defined Networking (SDN) | |
| | | | | Enhanced Mobile Broadband (aMBR) | Networking (SDN) • Virtual Network Function | |
| | | | | Broadband (eMBB), | VIII COCHOTIC I CITOCIOTI | |
| | | | | massive Machine Type Communication | (VNF)Radio Access Network | |
| | | | | (mMTC), Ultra-Reliable | (RAN) and Core Network | |
| | | | | and Low Latency | (CN) | |
| | | | | Communication | Enhanced Mobile | |
| | | | | (URLLC) | Broadband (eMBB), | |
| | | | | Network Slice Instance | massive Machine Type | |
| | | | | (NSI) and Network Slice | Communication | |
| | | | | Subnet Instance (NSSI), | (mMTC), Ultra-Reliable | |
| | | | | its characteristics, | and Low Latency | |
| | | | | components and service | Communication | |
| | | | | categories | (URLLC) | |
| | | | | Network resources used | Network Slice Instance | |
| | | | | to create network slices | (NSI) and Network Slice | |
| | | | | Network slice blueprints | Subnet Instance (NSSI), | |
| | | | | and catalogue | its characteristics, | |
| | | | | Benefits and value of | components and service | |
| | | | | network slicing to | categories | |
| | | | | organisations | Network resources used | |
| | | | | Verification tests for | to create network slices | |
| | | | | network slices | | |



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| Range of Application | Conduct regression tests to verify the network slice being created Upload network slices into production system and validate network slice blueprints Update network slice blueprint catalogue with newly created network slices Carry out maintenance of network slices Modify network slices to enhance the service performance Modify network slices to enhance the service performance |
|----------------------|---|
| Abilities | Network slice requirements of vertical and horizontal industries Determine the input parameters to create and configure network slices Check the catalogue if network slice blueprints exist for the network slices requested for Design the components for the network slices Determine resources required for creation of network slices |
| | Risks and mitigation measures for verification tests Network slice blueprints and catalogue Verification tests for network slices Risks and mitigation measures for verification tests |