

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

| TSC Category | Operations and User Suppor | t | | | | |
|-----------------|----------------------------|--|---|--|----------------------------------|----------------------------|
| TSC Title | Database Administration | | | | | |
| TSC Description | | ation and upgrading of database performance, planning for back | · · · · · · · · · · · · · · · · · · · | —————————————————————————————————————— | hooting. This includes monitorin | ng user access to database |
| TSC Proficiency | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 |
| Description | | ICT-OUS-2006-1.1 | ICT-OUS-3006-1.1 | ICT-OUS-4006-1.1 | ICT-OUS-5006-1.1 | |
| | | Conduct basic installation, | Monitor and maintain | Plan for installation, | Establish strategy and | |
| | | configuration and upgrade of | databases, and troubleshoot | configuration and upgrading | guidelines for database | |
| | | databases and servers, and | database errors faced, and | of databases and oversee | management and | |
| | | perform routine data backup | ensure appropriate levels of | database maintenance, | administration, directing | |
| | | and recovery activities | user access to databases | troubleshooting, back up | processes, resources and IT | |
| | | | | and recovery activities | investments to optimise | |
| | | | | | database performance | |
| Knowledge | | Basic steps in | Principles and processes | Data migration and | Industry standards for | |
| Kilowieuge | | installation, configuration | in installation, | database management | database performance | |
| | | and upgrading of | configuration and | system software and | Industry best practices in | |
| | | databases and servers | upgrading of databases | tools - their applications, | database management | |
| | | Usage of basic database | Processes involved in | pros and cons | and optimisation | |
| | | management system | data storage, extraction | Principles and processes | Strategy development | |
| | | software and tools | and troubleshooting | for more complex data | for database | |
| | | Performance indicators | Computing languages | storage, extraction and | maintenance, back up | |
| | | of databases | for database systems | troubleshooting | and recovery | |
| | | Basic processes in data | Security and business | Key components and | j | |
| | | backup, recovery and | considerations and | considerations in | | |
| | | reporting | implications on database | database user access | | |
| | | | user access | roadmap | | |
| | | | Database performance | Performance metrics for | | |
| | | | analysis | database performance | | |
| | | | Processes in database | Business objectives and | | |
| | | | backup and | plan formulation for data | | |
| | | | maintenance | back-up and recovery | | |
| Abilition | | Conduct basic | Perform installation, | Assess the business | Develop organisational | |
| Abilities | | installation, configuration | configuration and | need and plan for | standards and guidelines | |
| | | and upgrade of | upgrading of large or | installation, configuration | for the installation, | |
| | | databases and servers | complex databases and | and upgrading of | configuration and | |
| | | according to standard | data servers as required | databases | upgrading of databases, | |
| | | guidelines and | Maintain databases, in | Determine appropriate | in line with business | |
| | | methodologies | ensuring that data is | database management | requirements | |
| | | Perform simple | updated, stored and | tools and system | Establish strategy and | |
| | | maintenance as well as | extracted accurately and | software to be used, in | plan processes for | |
| | | data storage, updates | CALIBOTOR GOODINGTY AND | Software to be used, iii | maintenance, monitoring | |
| | | data storage, upuates | | | maintenance, monitoring | |



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| and extraction, using appropriate database management system software and tools Grant user access to database based on the appropriate lovels of access given to users Utilise basic system software and tools to track and consolidates Perform routine data baskup and recovery activities Document upcoming and completed data base ups and arriving activities Conduct data baskup and recovery activities Conduct data baskup and recovery activities for internal or external customers, relevant stakoholdors are relevant stakoholdors. Illustrative examples of database systems: Hadoop, Oracle Database, Microsoft SQL System, NSGULEs. |
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