Functional Area - DMT Architecture

Title	Develop mapping and documentation of infrastructure
Code	108059L2
Description	This unit of competency applies to all Digital Media Technology (DMT) practitioners involved with cloud implementation. Infrastructure documentation provides a bird's eye view of network layout and set up. The importance of a clear picture of the layout that depicts the mapping of the organisation's infrastructure cannot be over emphasised in support, maintenance, upgrade, change, etc. Ideally, this documentation should be done while implementation team can still be gathered.
Level	2
Credit	3

Competency	Performance Requirements
	1. Knowledge for developing mapping and documentation of infrastructure
	
	• Possess good understanding of network technologies and components in the 7 layers of OSI (Open Systems Interconnection) reference model
	• Possess good knowledge of the information needed to show in infrastructure documentation:
	 o Network connectivity, protocols
	 o Routing and switching capabilities and configurations
	 o Various settings
	  ▪ Network security
	  ▪ Access control
	 o Systems & devices (physical and virtual): routers, switches
	 o Software: monitoring apps, licenses, etc.
	• Possess basic knowledge on operation of network documentation tools
	• Possess good communication skills
	• Possess good knowledge of the organisation's documentation procedures and guidelines
	
	2. Develop mapping and documentation of infrastructure:
	
	• Preparation for documentation – to gather
	 o Past and current network diagrams, documentation
	 o Floor maps of the organisation
	 o Network patch panel diagrams
	 o Past and current infrastructure documentation
	 o Network design diagrams from network designer
	 o Cloud and other network service diagrams from service providers
	 o Setup documentation tools
	• Clarify or determine key elements:
	 o Which physical hardware components (network, storage, cloud connection devices, etc.) are needed for the network infrastructure which have been implemented/changed/removed
	 o Which software components installed or updated in the network infrastructure?
	 o Specific location of these components (hardware, software, virtual and physical)
	 o How and when the components were installed
	 o What components configuration settings are
	• Use appropriate tools to draw network diagrams of the infrastructure with location of each component with a matching identifier (the device and the diagram) clearly

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	• Assemble and package all the network diagrams with all the component templates to form the "latest version" infrastructure document. Label the documentation in accordance with the organisation's standards 3. Exhibit professionalism • Always follow the organisations documentation standards and procedures
Assessment Criteria	The integrated outcome requirements of this UoC are the abilities to: • Apply tools and infrastructure templates for mapping documentation • Gather the most current information that truly reflects the organisation's infrastructure from different parties and documents • Develop documentation using format that complied with the organisation's standards
Remark	