l.	Title	Develop tools that facilitate network planning, capacity dimensioning and inventory control
2.	Code	ITCSN0510A
3.	Range	When implementing a network, irrespective of its size, many different tools are needed to assist in its planning, development and operation. There are "off the shelf" tools to assist common tasks but often these "CANNED" tools are provided in limited functions or flexibility that is required for certain network planning and capacity dimensioning job. Hence in-house tools may be needed to be developed to assist the tasks. This UOC concerns developing tools that facilitate network planning, capacity dimensioning and inventory control. These tools are software tool.
4.	Level	5
5.	Credit	3
5.	Competency	 6.1 Possess the knowledge in the subject area 6.1 Possess the knowledge in the subject area Extensive experience in network capacity planning and dimensioning (current and growth forecasting) Experienced with the tools and functions that are needed to assist capacity and dimensioning planning In tune with current and emerging technologies and its application Possess extensive experience with network modelling techniques and simulation tools Conversant with how network elements can be integrated and the performance factors are affected by network size, coverage and peak/off peak usage Expert in software engineering techniques such as functional requirement gathering, functional design, and development, etc. Understand health and safety procedures and government regulations
		 6.2 Develop tools that facilitate network planning, capacity dimensioning and inventory control 6.3 Exhibit professionalism 6.3 Exhibit professionalism 6.3 Exhibit dimensionalism 6.3 Exhibit dimensionalism 6.3 Exhibit dimensionalism 6.4 Develop tools to be developed. These functional requirements of the tools to be developed. These functions may be additional existing internal or vendor tools 9 Work with stakeholders to comprehend functional requirements of the tools to be developed. These functions may be additional existing internal or vendor tools 9 Evaluate the capability of internal staff for the development of the required tool and its feasibility for in-house or outsourced development work 9 Recommend to stakeholders on estimate of the effort required for the work implementation and confirm the functional requirement with an initial functional design 9 Develop the applications, perform unit and system integration tests, compile user manuals 9 Package the newly developed tools for easy installation and work sign-off 9 Perform appropriate training on the use of tools, if required 9 Always take into consideration and strike a proper balance among all related technological, political, social, environmenta and logal factors
7.	Assessment Criteria	 and legal factors Always strike a proper balance between the organisation and al stakeholders The integrated outcome requirements of this UoC are the abilities to: communicate effectively with stakeholders to identify the tools and functions required analyse the feasibilities and best approach to develop the required tools agree with stakeholder on a solution, with timeline for the development work develop and test the tools to comply with the organisation quality standards ensure the tools are packaged for easy installation and sufficient training or instructions are given on usage of the tools

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