1.	Title	Identify/estimate cost of performing network upgrade/expansion
2.	Code	ITCSN0501A
3.	Range	This UOC applies to estimate cost of performing network upgrade. Networks can be voice, data, LAN, WAN, MAN, wired or wireless, mobile 2G/3G/4G, WiMAX, LTE or NGN, etc.
4.	Level	5
5.	Credit	3
6.	Competency	 6.1 Possess the knowledge in the subject area 6.1 Possess the knowledge in the subject area Experienced with risk management, planning and business needs in network deployment Experienced with network capacity planning (current and growth forecast) In tune with current and emerging technologies and its applications Possess extensive knowledge of network architecture and network technologies Knowledgeable in the network components required for the modelling and its cost Experienced with financial modelling and use of computer application tools such as Excel, etc. Critically understand the upgraded network features and/o new network requirement specifications and design
		 6.2 Identify/estimate cost of performing network upgrade/ expansion 6.2 Identify/estimate cost of performing network upgrade/ expansion Be able to: Consider different network upgrade reasons, such as change of network architecture, increase component performance, resilience, etc. Evaluate all constituents involved in the upgrade, such as hardware, software, manpower, site, materials, etc Evaluate the cost of removal of old components and installation of new components Acquire component cost from appropriate parties, such a vendors, marketing, contractors, HR, etc. Feed appropriate parameters into calculation tools and produce CAPEX and OPEX reports Package all documents, including estimated CAPEX cost
		 6.3 Exhibit professionalism 6.3 Exhibit a professionalism 6.3 Exhibit professionalism 6.3 Exhibit a professionalism 6.3 Exhibit professionalism 6.3 Exhibit a professionalism 6.4 Exhibit a proper balance among all related technological, political, social environmental and legal factors
7.	Assessment Criteria	 The integrated outcome requirements of this UoC are the abilities to: i. identify the necessary network components (including manpower) required for network upgrade from network design plans ii. use appropriate tools or the organisation standard calculation methodology to produce reports on cost such as CAPEX, OPEX for upgrading of a particular network iii. effectively present the reports to assist in decision making process

Functional Area: Network Infrastructure & Operation (Planning & Design)