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

1.	Title	Identify/estimate cost of rolling out a new network
2.	Code	ITCSNO602A
3.	Range	This UOC applies to identify/estimate cost of rolling out a new network. Networks can be voice, data, LAN, WAN, MAN, wired or wireless, mobile 2G/3G/4G, WiMAX, LTE or NGN, etc.
4.	Level	6
5.	Credit	4
6.	Competency	<table><tr><td colspan="2">Performance Requirement</td></tr><tr><td>6.1 Possess the knowledge in the subject area</td><td> - Possess extensive experience with risk management, planning and business needs in network deployment - Possess extensive experience with network capacity planning (current and growth forecast) - In tune with current and emerging technologies and their applications - Possess extensive knowledge of network architecture and network technologies - Knowledgeable of the necessary network components required for the modelling and their cost - Possess extensive experience with financial modelling and use of computer application tools such as Excel, etc. - Critically understand the upgraded network features and/or new network requirement specifications and design specifications - Experienced with project management methodologies and proficient in using standard tools </td></tr><tr><td>6.2 Identify/ estimate cost of rolling out a new network</td><td>Be able to: - Lead a team to identify/estimate cost of rolling out a network - Consider different network scenarios, such as different network architectures, performance, resilience, sizes, schedules, etc. - Evaluate and analyse all factors required elements involved in new network deployment, such as hardware, software, manpower, site, material costs, etc. - Evaluate the service level required of the network, such as performance, resilience, backup, size to calculate the manpower - Formulate or acquire the network rollout plan from colleagues and estimate cost in items related to the network rollout such as: preparations, marketing, training, etc. - Acquire element cost from appropriate departments, such as vendors, marketing, contractors, HR, etc. - Define and create a network rollout modelling tool, if no such tool is available - Feed appropriate parameters into modelling or calculation tools and produce CAPEX and OPEX reports - Manage the documentation process to package all necessary documents, including the estimated cost reports for dispatching to stakeholders - Present the report and cost to stakeholders such as senior management and make appropriate recommendation for to assist network rollout decision making </td></tr></table>

	6.3 Exhibit professionalism	• Comply with the organisation's business and network operation policies and strategies • Always position and look after the organisation's interests • Construct networks complying to government regulations • Always take into consideration and strike 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) and related cost required for new network from network design and rollout plans ii. use appropriate tools or the organisation standard calculation methodology to produce reports on costing such as CAPEX, OPEX for new network deployment iii. effectively present the reports to assist in decision making process	
Remark		