

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

1. Title	Identify how to apply new network technologies for new products/services	
2. Code	ITCSNO506A	
3. Range	This UOC concerns identifying how to apply new technologies to benefit the organisation particularly in creating new products / services. New technologies imply newly released or destined to be released telecommunication technologies (wireless, mobile, LTE, WiMAX, 4G.)	
4. Level	5	
5. Credit	4	
6. Competency	<p style="text-align: right;"><u>Performance Requirement</u></p> <p>6.1 Possess the knowledge in the subject area</p> <ul style="list-style-type: none"> • Experienced with network planning (current and growth forecast) • In tune with current market and emerging network technologies • Comprehend product specifications, and their applications and/or integration capabilities • Experienced with product testing and evaluation techniques • Extensively experienced with various network protocols, network standards and network technologies which could be wired-line or mobile network such as ATM, IP, GSM, LTE, NGN, MPLS, etc. • Effectively liaise with vendors to acquire technical product details • Understand health and safety procedures and government regulations • Experienced with financial and risk analysis when applying new technologies <p>6.2 Identify how to apply new network technologies for new products/services</p> <p>Be able to:</p> <ul style="list-style-type: none"> • Work with product development and/or business development team or other departments to evaluate new technologies • Formulate a suitable methodology to be used in performing the evaluation • Seek and acquire the necessary information related to the new technology/product which enables the evaluation process to proceed • Initiate a feasibility study to determine the technical and financial viability of applying the new technology • Analyse the FSR (Feasibility Study Report), particularly focusing on the network operation factors, cost, benefits, interoperability, network stability, service risks, etc. • Produce a report with business plan and FSR • Present business proposal to the stakeholders, such as the organisation's business planning team and make appropriate recommendations <p>6.3 Exhibit professionalism</p> <ul style="list-style-type: none"> • Documents are produced at the correct level for the readers and comply with the organisation's policies and standards • 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. communicate effectively with relevant parties to determine the scope of study, the objectives and the deliverables of the study ii. apply suitable methodology to implement the evaluation process iii. perform analysis of the results iv. formulate a FSR that delivers the required objectives of the study v. present effectively the FSR to relevant parties with recommendations and impacts to assist decision making
Remark	