

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

1. Title	Identify/evaluate feasibility of applying new network technologies	
2. Code	ITCSNO505A	
3. Range	There are new technologies continuously being developed and come to market. A part of the network planning process is to evaluate whether these new technologies can be used to benefit the organisation and customers. This UOC concerns identifying or evaluating the feasibility (technical, financial and operational) of applying new technologies to be beneficial to the organisation. New network technologies implies newly released telecommunication technologies (wireless, mobile, LTE, WiMAX, high speed optical, modulation, etc.), products, systems (hard or soft: OSS, transmission, cable, switch, etc.), components, procedures (standards, design, installation, operational, maintenance) etc.	
4. Level	5	
5. Credit	5	
6. Competency	<p style="text-align: center;"><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 the current market and emerging network technologies • Comprehend new product specifications, be aware of its applications and integration capabilities • Possess extensive experience with product testing and evaluation techniques • Extensive knowledge of network standards and product performance standards • Understand health and safety procedures and government regulations • Experienced with performing financial and risk analysis • Possess good interpersonal skills to work with various parties to perform the feasibility study • Posses knowledge of regulatory telecommunication laws <p>6.2 Identify/ evaluate feasibility of applying new network technologies</p> <p>Be able to:</p> <ul style="list-style-type: none"> • Work with related parties to determine the objectives, scope, requirements, deliverables, and time schedules of the feasibility evaluation • Use appropriate methodology to formulate an evaluation plan of activities to perform the feasibility evaluation • Seek and acquire the necessary information relating to the new technology which can enable the evaluation process to proceed • Perform the evaluation process. It is likely it will require coordination with various parties to perform evaluation procedures • Analyse the results, particularly focusing on the area of network operation factors, costs, benefits, interoperability, risks, etc. • Produce a feasibility study report (FSR) comprising the required deliverables, such as complexity of applying the new technology, risk factors, cost and benefits it generates, and business and operation values • Present the FSR with summary and recommendations to relevant parties <p>6.3 Exhibit professionalism</p> <ul style="list-style-type: none"> • Always look after the interest of the company and customers • 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 feasibility evaluation ii. apply suitable feasibility study methodology to implement the evaluation process and perform analysis of the results iii. formulate an FSR that conforms to the organisation's standards and contains the required deliverables iv. present the FSR effectively to relevant parties with recommendations and any impacts it may have on the organisation or business when allying certain new network technology, to assist decision making
Remark	