Functional Area: Network Infrastructure & Operation (Planning & Design)		
1. Title		Perform network modelling
2. Code		TCSNO514A
3. Range		This UOC concerns network modelling when designing internal networks or networks or clients. Networks can be voice, data, wireless, mobile, WAN, MAN, LAN, etc.
4. Level	5	
5. Credit	4	
6. Compet	-	<ul> <li>Performance Requirement</li> <li>Critically understand requirements from either internal or external customers and the current network architecture and characteristics</li> <li>Experienced with network capacity planning (current and growth forecast)</li> <li>Conversant with current and emerging technologies and their applications</li> <li>Extensively experienced with various network architecture, network technologies and its operating characteristics, inclusive routing, switching, transmission, etc.</li> <li>Experienced with network simulation and modelling techniques and use of application tools.</li> <li>Understand health and safety procedures and government regulations</li> </ul>
	6.	Be able to:  Define and design different network scenarios based on the customer requirement, such as different network architectures, performance, resilience, sizes, schedules, etc.  Identify network components required hardware, software, site, materials  Feed in the network requirements and components details into simulation application.  Build prototype for proof of concept (POC) to understand performance, availability, reliability and resilience, etc  Identify the necessary documents and the required format and relevant information to facilitate decision making or network implementation. This information includes: network design plans, drawings, routes, performance figures, etc.  Manage the documentation process and present the models to stakeholders with recommendation for deployment
	6.	• Always take into consideration and strike a proper balance among all related technological, political, social, environmental and legal factors
7. Assessr Criteria	i. ii ii	<b>1</b>
Remark		