

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

1. Title	Define network deployment strategies
2. Code	ITCSNO513A
3. Range	This UOC concerns defining deployment strategies for internal network or network for clients. Networks can be voice, data, wireless, mobile, WAN, MAN, LAN, etc.
4. Level	5
5. Credit	3
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"> <li>• Expert in network capacity planning and customer SLA determination</li> <li>• Extensive knowledge in network architectures, network technologies and their operating characteristics, inclusive routing, transmission, etc.</li> <li>• Extensive experience in project management and network deployments</li> <li>• Extensive knowledge in security and risk management in network architecture</li> <li>• Understand health and safety procedures, government regulations, compliances, etc.</li> </ul> <p>6.2 Define network deployment strategies</p> <p>Be able to:</p> <ul style="list-style-type: none"> <li>• Assemble and lead the planning and deployment teams in designing an appropriate deployment strategy</li> <li>• Identify the network deployment requirements, such as network architecture, performance, resilience, size, schedule, configuration, etc.</li> <li>• Create several deployment scenarios</li> <li>• Perform lab testing or modelling of the network deployment scenarios (refer ITCSNO514A – Perform network modelling)</li> <li>• Choose a suitable rollout/deployment plan (parallel, pilot, phased, localised area or “big bang”) after considering the possible effects, cost, resource requirements and risks to business, internal departments and external customers</li> <li>• Document and finalise the rollout plan with schedules, manpower requirements, responsibilities, migration and rollback (recovery) plan</li> <li>• Distribute documents to appropriate stakeholders and presentation of the model to stakeholders may be required</li> </ul> <p>6.3 Exhibit professionalism</p> <ul style="list-style-type: none"> <li>• Always take into consideration and strike a proper balance among all related technological, political, social, environmental and legal factors</li> <li>• Deploy networks that satisfy clients (internal and/or external) and comply with organisation standards and regulatory requirements</li> <li>• Follow safety procedures at every step and work production to meet required quality standard</li> </ul>
7. Assessment Criteria	The integrated outcome requirements of this UoC are the abilities to: <ol style="list-style-type: none"> <li>i. coordinate with planning and deployment teams to formulate an appropriate deployment strategy</li> <li>ii. apply scenario based modelling to determine the suitable deployment strategy</li> <li>iii. create plans and schedules for deployment and with consideration for rollback on deployment failure</li> </ol>
Remark	