

**Information and Communications Technology Industry Training Advisory Committee
Software Products and Software Services (SW) branch
Unit of Competencies**

1. Title	Define, review and validate network architecture principles
2. Code	ITSWAR509A
3. Range	Define, review and validate architecture principles for the network resources of an organisation to meet its business and application objectives based on geographic and physical constraints [Architecture – Network Architecture]
4. Level	5
5. Credit	2
6. Competency	<p style="text-align: right;"><u>Performance Requirement</u></p> <p>6.1 Understand various network technology architecture principles</p> <ul style="list-style-type: none"> ▪ Be able to <ul style="list-style-type: none"> ▪ identify the interrelationships between various network technology architecture principles (See Remark 1) ▪ apply tools and technique to define their implications with business and application objectives <p>6.2 Develop a set of network technology architecture principles for the network resources professionally</p> <ul style="list-style-type: none"> ▪ Be able to <ul style="list-style-type: none"> ▪ understand the requirements of a network technology architecture to meet business and application objectives based on geographic and physical constraints ▪ review, define, validate and develop a set of network technology architecture principles for network resources of an organisation to support its business and application objectives ▪ ensure that the developed network technology architecture principles are in compliance with organisation's guidelines as well as any (local and international) laws and regulatory requirements, if applicable
7. Assessment Criteria	The integrated outcome requirements of this UoCs is the ability to develop a set of network technology architecture principles for the network resources of an organisation to meet its business and application objectives based on geographic and physical constraints.
Remark	1. Network technology architecture principles should at least include the following aspects <ol style="list-style-type: none"> a) resilience level; b) Quality of service (QoS) especially for multimedia applications, e.g. jitter on interactive voice applications, colouring or weighed queuing model for different class of services; c) network bandwidth and rate limits; d) network performance requirement at different mobility model; and e) roaming.