

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

1. Title	Design and construction of network architecture
2. Code	ITSWAR512A
3. Range	Define, evaluate and apply appropriate international, national, industry, de-facto, and corporate standards for the design and construction network architecture [Architecture – Network Architecture]
4. Level	5
5. Credit	3
6. Competency	<p style="text-align: center;"><u>Performance Requirement</u></p> <p>6.1 Understand international, national, industry, de-facto, corporate standards of network architecture</p> <p>Be able to</p> <ul style="list-style-type: none"> <li>▪ lead and oversee the design, deployment and implementation of the network architecture for an organisation</li> <li>▪ aware of the compliance requirements of those related local and international laws as well as regulatory, if applicable</li> </ul> <p>6.2 Define standards for the design and construction of network architecture</p> <p>Be able to select relevant standards or adapt these in designing, deploying and implementing the network architecture for an organisation’s specific environment</p> <p>6.3 Evaluate standards for the design and construction of network architecture</p> <p>Be able to</p> <ul style="list-style-type: none"> <li>▪ understand the impact of new technologies to the existing network architecture</li> <li>▪ identify the pros and cons of different standards to support the target network architecture</li> <li>▪ ensure that the following views are considered in the selection of standards: <ul style="list-style-type: none"> <li>➤ Hardware View</li> <li>➤ Communications View</li> <li>➤ Processing View</li> <li>➤ Standards View</li> <li>➤ Cost View</li> </ul> </li> </ul> <p>6.4 Apply standards for the design and construction of network architecture</p> <p>Be able to employ defined standards in the design and construction of an organisation’s target network architecture</p> <p>6.5 Exhibit strong professionalism in performing this work</p> <p>Be able to define appropriate standards for an organisation’s target network architecture to support its business functions in a highly professional manner</p>
7. Assessment Criteria	The integrated outcome UoCs requirements of this UoCs are the ability to apply appropriate standards in the design and construction of network architecture for the design and construction network architecture.
Remark	Pre-requisites: ITSWAR510A, ITSWAR511A, ITSWAR513A