

Specification of Competency Standards
for the Information & Communications Technology Industry
Unit of Competency

Functional Area - Architecture

Title	Model technology architecture
Code	111129L5
Range	This UoC involves modelling technology architecture using architecture building blocks and by considering appropriate architecture viewpoints for the particular problem domain or industry
Level	5
Credit	6 (For Reference Only)
Competency	<p>Performance Requirements</p> <ol style="list-style-type: none"> 1. Understand technology architecture viewpoints <ul style="list-style-type: none"> • Be able to <ul style="list-style-type: none"> ○ identify relevant stakeholders of the technology architecture ○ select technology architecture viewpoints to address stakeholders' concerns (Remark) 2. Identify, evaluate, apply, and develop technology architecture tools and techniques <ul style="list-style-type: none"> • Be able to apply appropriate tools and techniques (e.g. architecture patterns, architecture description languages, diagrams and schematics) to capture, model, analyse and document the technology architecture viewpoints 3. Use a building block approach to model the architecture <ul style="list-style-type: none"> • Be able to abstract the technology architecture based on the relevant viewpoints into architecture building blocks 4. Understand the inter- relationships of the various viewpoints <ul style="list-style-type: none"> • Be able to integrate the various viewpoints in the architecture model in order to <ul style="list-style-type: none"> ○ facilitate the building blocks decomposition ○ enhance the understanding of the audience 5. Develop an initial technology architecture using building block approach <ul style="list-style-type: none"> • Be able to develop and document the initial technology architecture through the use of appropriate architecture building blocks 6. Conduct reviews with stakeholders <ul style="list-style-type: none"> • Be able to seek feedbacks from stakeholders <ul style="list-style-type: none"> ○ confirm with stakeholders that the architecture addresses all stakeholders' initial concerns ○ re-work the architecture if necessary
Assessment Criteria	The integrated outcome requirement of this UoC is to develop and document a technology architecture model using a building block approach that integrates the various viewpoints with the use of appropriate tools and techniques
Remark	Examples of technology architecture viewpoints include hardware, communication, processing, standards, cost, and integration.