

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

Functional Area - Data Science

Title	Define and establish the data architectures
Code	111138L6
Range	Evaluate, define, and apply appropriate practices and methodologies to establish data architecture to support the defined data policies, standards and rules
Level	6
Credit	3 (For Reference Only)
Competency	<p>Performance Requirements</p> <p>1. Understand various data policies and architecture principles</p> <ul style="list-style-type: none"> • Be able to: <ul style="list-style-type: none"> ○ understand the data governance and relevant strategies throughout the data lifecycle ○ understand data policies for data ownership, data custody, data retention, data sharing (both internal and external), data archive and data disposal ○ understand data architecture framework, standards and principles for data modelling, metadata, data security, reference data, master data, etc. <p>2. Define data policies for different data assets</p> <ul style="list-style-type: none"> • Be able to: <ul style="list-style-type: none"> ○ understand the data governance and define the data policies for the organisation based on the business objectives ○ define data architecture framework for different data assets to align with the standards, practices, and regulatory requirements on the use of data in the organisation and the business environment <p>3. Define architecture principles</p> <ul style="list-style-type: none"> • Be able to: <ul style="list-style-type: none"> ○ understand the data governance and define architecture principles (See Remark 1) for different data assets to align with their data management requirements and policies
Assessment Criteria	The integrated outcome requirement of this UoC is the ability to define data policies and architecture principles for an organisation's data assets for considering the industrial standards and regulatory requirements
Remark	1. Architecture principles include (but not limited to) how data should be identified, requested, organised, accessed, processed/analysed, presented, etc.