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

1. Title	Understand key characteristics of various application software architecture models	
2. Code	ITSWAR518A	
3. Range	Demonstrate clear understanding of the key characteristics of various application software architecture models for evaluation the feasibility of adopting those models to the software designed for an organisation [Architecture – Application Software Architecture]	
4. Level	5	
5. Credit	1	
6. Competency		Performance Requirement
	6.1 Comprehend various application software architecture models and patterns, their variants and the various technologies behind them	Be able to explain the assumptions, key features, underlying mechanisms, strengths and weaknesses of different application software architecture models See Remark for some examples of application software architecture models.
	6.2 Understand the similarities and differences between various application software architecture models	Be able to contrast and name the pros and cons of using different application software architecture models under given requirements
	6.3 Understand the trends and paradigms, and the underlying reasons supporting the shift of paradigms of adopting various application software architecture models	Be able to analyse the trend, name the driving forces and the restraining forces of the adoption of various application software architecture models
7. Assessment Criteria	The integrated outcome requirements of this UoCs are the abilities to (i) understand the key characteristics of various application software architecture models; (ii) understand the pros and cons of those models; and (iii) understand the background driving forces of those architecture models.	
Remark	Examples of application software architecture models are JEE5, dot.Net, SAA, Client/Server, multi-Tier, and SOA.	