

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

1. Title	Define, review and document a technology architecture baseline	
2. Code	ITSWAR614A	
3. Range	Develop a technology architecture baseline to satisfy business requirements of the particular IT solution in an organisation [Architecture – Technology Architecture]	
4. Level	6	
5. Credit	5	
6. Competency		<p style="text-align: center;"><u>Performance Requirement</u></p> <p>6.1 Understand standards, policy and procedure for the development of baseline technology architecture</p> <p>6.2 Define the baseline technology architecture</p> <p>6.3 Review the baseline technology architecture</p> <p>6.4 Document the baseline technology architecture</p>
		<p>Be able to describe and identify the key baseline technology architecture components and the standards, policy, process and procedure required for its development</p> <p>Be able to</p> <ul style="list-style-type: none"> ▪ extract relevant technology requirements from the higher level business requirement, architecture vision, application, data and integration needs ▪ collect relevant information on current systems ▪ consider all constraints on current systems ▪ list distinct functionality of these systems ▪ produce affinity groupings of functionality using a service grouping model applicable to the particular industry ▪ identify key non-functional requirements of the baseline technology architecture (See Remark 2) ▪ identify candidate technology architecture building blocks ▪ identify their current interfaces ▪ produce an initial technology architecture model <p>Be able to</p> <ul style="list-style-type: none"> ▪ review and validate (or generate if necessary) the set of technology architecture principles. ▪ sanity check functionality to assure all of current system and business requirements are considered ▪ verify the initial technology architecture model <p>Be able to</p> <ul style="list-style-type: none"> ▪ document all constraints of the baseline technology architecture model ▪ document criteria to check merits of the baseline technology architecture model ▪ document criteria for selection of service portfolio architecture ▪ use an appropriate tool (architecture description language, diagrams, schematics) to facilitate the documentation

	6.5 Exhibit professional skills	<p>Be able to exercise professional judgment to</p> <ul style="list-style-type: none"> ▪ identify appropriate constraints and determine relevant principles ▪ produce a baseline technology architecture model best suiting for a particular industry or the specific problem domain
7. Assessment Criteria	<p>The integrated outcome requirements of this UoCs are the abilities to:</p> <p>(i) produce a baseline technology architecture model that is best suit to the particular problem domain and requirements from the higher level architecture (e.g. business, vision, data, application, integration, current system architecture); and</p> <p>(ii) ensure that the baseline technology architecture model summarises key findings and conclusions, and illustrates baseline configurations which can be further extended and elaborated into the target technology architecture.</p>	
Remark	<ol style="list-style-type: none"> 1. Examples of non-functional requirements are scalability, reliability, availability and manageability 2. Pre-requisites: ITSWAR601A, ITSWAR605A, ITSWAR608A 3. Co-requisites: ITSWAR510A, ITSWAR519A, ITSWAR619A 	