

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

1. Title	Keep in-house practices in line with industry best practices
2. Code	ITSWAR520A
3. Range	Develop and maintain methodologies, standards, practices and procedures in synchronisation with business, data and technology architectures and be applicable to all software development projects in an organisation [Architecture – Application Software Architecture]
4. Level	5
5. Credit	2
6. Competency	<p style="text-align: right;"><u>Performance Requirement</u></p> <p>6.1 Understand which are the elements of good software design and development practices, and which are the pitfalls and traps in software development under the adopted application software architecture Be able to name the elements of good software design practices, and the pitfalls and traps in terms of usability, testability, extensibility, maintainability and manageability of the development work, under the assumption and constraints imposed by the adopted application software architecture</p> <p>6.2 Develop methodologies, processes, and best practices Be able to develop methodologies, processes, and best practices for application software design, development and testing, which are in compliance with organisation's guidelines as well as any (local and international) laws and regulatory requirements, where applicable</p> <p>6.3 Document the methodologies, processes, standards and best practices for the architecture model adopted Be able to clearly document the defined methodologies, processes, standards and best practices</p> <p>6.4 Create templates to facilitate the enforcement of the methodologies, processes, standards and best practices developed Be able to create templates on the architecture model adopted for enforcement of the developed methodologies, standards and best practices adopted by the organisation</p> <p>6.5 Enforce the compliance of templates Be able to push the adoption through influencing, motivating and/or enforcing the use of the developed methodologies, processes, standards, best practices and templates in various development stages, for example, coding convention and source code management practice</p>
7. Assessment Criteria	The integrated outcome requirements of this UoCs is the ability to ensure software development methodologies, standards, practices and procedures are maintained throughout the development life cycle and in-line with the technology advancement and availability of such technologies in ICT industry.
Remark	Co-requisites: ITSWAR607A, ITSWAR611A, ITSWAR615A