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

1. Title	Maintain a common library of reusable embedded software components	
2. Code	ITSWAR622A	
3. Range	Maintain a common library of reusable embedded software components to support embedded software development [Architecture – Embedded Software Architecture]	
4. Level	6	
5. Credit	3	
6. Competency		Performance Requirement
	6.1 Understand the needs and the methodologies for developing and maintaining a common library of re-usable building blocks for embedded software systems	Be able to ▪ determine whether a building block of a certain embedded software system has the potential to be reused in the organization ▪ set up and enforcement procedures and standard to capture re-useable building blocks of embedded software systems ▪ identify building blocks from existing common library to meet the needs of a given embedded software system
	6.2 Maintain a common library of reusable embedded software components	Be able to ▪ Determine whether a building block of a certain embedded software system can be reused based on possibly incomplete and inconsistent information ▪ maintain and update a common library of reusable embedded software architecture building blocks as part of software resources of an organization to promote re-useability ▪ ensure that each building block in the library conforms to some adopted embedded software architectures and related standards
	6.3 Maintain a common library of reusable embedded software components professionally	Be able to maintain and update a common library of reusable embedded software components in accordance with organisation's guidelines as well as any local and international laws, regulatory requirements and industry best practices, where applicable
7. Assessment Criteria	The integrated outcome requirement of this UoCs is the ability to maintain and update a common library of reusable embedded software architecture building blocks as part of ICT infrastructure of an organisation for reuse.	
Remark		