## Specification of Competency Standards for the Retail Industry Unit of Competency

## Functional Area - Website Design and Development

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Title	Design and setup software systems
Code	107224L6
Description	In the process of website design and development, implement software system design and architecture.
Level	6
Credit	6 (For Reference Only)
Competency	Performance Requirements  1. Understand the basic knowledge of software system design and architecture  • Understand master planning of information systems engineering, software development methods, development management, reverse engineering and reconstruction projects etc,  • Master the software architecture design knowledge, architecture-based software development methods and system architecture assessment etc.  • Understand UML modeling and architecture documentation, and UML-based software development process  • Understand development platforms and typical architectures such as CORBA, RMI and DCOM etc.  • Understand security technology, management and evaluation such as encryption and decryption techniques, hash functions and digital signatures, key distribution centers and public key infrastructure, information security systems, etc.  • Understanding system security architecture design, such as network security architecture design, database system security design, etc.  • Understand the reliability design of the system, such as software reliability modeling, evaluation, design and management  2. Implement software system design and architecture  • Implement the software system development life cycle, such as system design, requirements analysis, system architecture design, implementation model, system conversion, operation and maintenance  • Implement software architecture management (VRAPS organization and management principles), including vision, Rhythm, Anticipation, Partnering and Simplification.  • Plan and design of hierarchical architecture and information architecture, key technologies and standards, design principles and design patterns and implementation processes  3. Exhibit professionalism  • Ensure the integration capacity of the software system design and architecture order to achieve a seamless coordination with different stakeholder.  The integrated outcome requirement of this UoC is the ability to:
Assessment Criteria	Understanding software system design and architecture, such as UML modelling and architecture documentation, component platform and typical architecture, system security architecture design and system reliability design

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	Carryout software system design and architecture and software system development life cycle for the implementation of software system architecture management and service-oriented architecture.
Remark	