Specification of Competency Standards
for the Retail Industry
Unit of Competency

Functional Area - Website Design and Development

Title	Master the design of distributed system
Code	107220L5
Description	In the process of website design and development, design distributed system.
Level	5
Credit	6 （For Reference Only）
Competency	Performance Requirements 1. Understand the design of distributed systems • Understand the characteristics of distributed systems such as interprocess communication, distributed objects and remote calls, security, decentralized file systems, name services, time and global status, decentralized transactions, mobile computing and ubiquitous computing, decentralized Multimedia systems, Web services etc. • Understand distributed system design standards architecture such as CORBA, Microsoft DCOM (Distributed Component Object Model), Java RMI (Remote Methods Invocation) 2. Master the distributed system design standard architecture • Apply CORBA object management architecture, Object Requirement (ORB), Common Object Services, Common Facilities, Application Objects and CORBA APIs, such as communication protocols, object and service information Model etc. • Understand the working principle of Java RMI, its characteristics and the relationship with CORBA • Apply the features of interoperability, scalability, flexible configuration, security, load balancing, fault tolerance of heterogeneous applications. 3. Exhibit professionalism • Ensure the development of distributed systems technology meets with industry or international standards • Ensure the integration and security of the distributed system.
Assessment Criteria	The integrated outcome requirement of this UoC is the ability to: • Understand the distributed system design • Apply the distributed system design standard architecture and related functions to build the distributed system.
Remark	