Specification of Competency Standards
for the Retail Industry
Unit of Competency

Functional Area - Hardware Architecture and Maintenance

Title	Master and apply the server cluster technology
Code	107230L5
Description	Apply cluster technology to bring multiple servers together to perform a single platform for higher computing and access speed.
Level	5
Credit	6（For Reference Only）
Competency	Performance Requirements 1. Understand the knowledge of server clustering and design efficient and reliable server resources • The basic knowledge includes technologies such as cluster systems, Load Balancing, Hot Spare, and Fault Tolerant etc. • Master the working model and principles of server clustering including Master-slave mode, Duplex Mode, Dual Cluster, High-availability cluster etc. • Master the network fault switching process 2. Apply server cluster settings methods • Master the methods of server deployment and setup for different platforms, including network setup, shared disk and heartbeat protocols, etc. 3. Exhibit professionalism • Design and set up server cluster system according to program requirements • Ensure the security, efficiency, reliability and manageability of the cluster system.
Assessment Criteria	The integrated outcome requirement of this UoC is the ability to: • Understand the basics of server clusters including work patterns and principles • Master the cluster service settings.
Remark	