

Specification of Competency Standards
for the Retail Industry
Unit of Competency

Functional Area - Hardware Architecture and Maintenance

Title	Design and develop e-business system application server and network architecture solutions
Code	107232L5
Description	Design and develop a total solution for the corporate, including software, hardware and application services. Through a comprehensive system management to support the various applications for users.
Level	5
Credit	6 (For Reference Only)
Competency	<p>Performance Requirements</p> <p>1. Understand the basic concepts and infrastructure of e-business systems to design the entire server and network architecture</p> <ul style="list-style-type: none"> • Understand various application servers, including web pages, email, domain name system, and database servers etc. • Understand all kinds of network hardware such as firewall, Load Balancer, Router and Switch etc. • Evaluate server and network usage. Set up appropriate Network Protocol and select the appropriate operating system platform • Analyse the region of the potential customer and identify the appropriate Internet Service Providers to reduce the network latency of the customer's e-business transaction • Assess network security threats and risks. Establish communication with information security experts to plan relevant security policies. <p>2. Design and set up subsequent servers and network management and monitoring systems</p> <ul style="list-style-type: none"> • Set up real-time network traffic and analysis system to monitor and respond to network incidents in real time. • Set up the server's performance monitors to monitor potential server problems and submit reports to the corporate. <p>3. Exhibit professionalism</p> <ul style="list-style-type: none"> • Be cautious about the software and hardware, and the data and quotation provided by the network service providers.
Assessment Criteria	<p>The integrated outcome requirement of this UoC is the ability to:</p> <ul style="list-style-type: none"> • Design the infrastructure of the e-business system. • Ensure the safety and reliability of the server and network environment.
Remark	