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

## Functional Area - Transaction Security Technology

litle	Apply encryption technology to send data
Code	107233L4
Description	Apply technical means to change the important information into garbled (encrypted) transmission. Upon reaching the destination, apply the same or different means to restore (decryption).
Level	4
Credit	12 (For Reference Only)
Competency	Performance Requirements  1. Master the basic concepts of encryption technology  Explain the basic terminology of encryption technology  Original Structure

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	<ul> <li>Encryption / decryption: The sender encrypts the message with the recipient's public key</li> <li>Digital Signature: The sender signs the message with its private key. The signature can be generated by encrypting the entire message or by encrypting a small piece of information for the message, where the small data block is the function of the entire message</li> <li>Key exchange: communication exchange key for both parties</li> <li>RSA algorithm</li> <li>Recognize other public key encryption algorithms, including:</li> <li>ELGamal algorithm</li> <li>Backpack encryption algorithm</li> <li>Master the key management technology</li> <li>Key authentication technology</li> <li>Key authentication technology</li> <li>Key authentication technology</li> <li>The Certification Authority (CA) verifies that a public key belongs to a particular entity (A person or a network entity)</li> <li>Digital certificate</li> <li>Recognize Sockets Layer (SSL) encryption technology</li> <li>SSL is a widely implemented public key encryption technology, the main types include:         <ul> <li>No client SSL</li> <li>Configure the clientless SSL for the VPN device</li> <li>Network to network</li> <li>Host to network</li> </ul> </li> <li>Introduce the most suitable for the corporate encryption technology.</li> <li>Abide by professionalism</li> </ul>
	<ul><li>technology.</li><li>Comply with the relevant legal requirements in the use of encryption technology.</li></ul>
Assessment Criteria	<ul> <li>The integrated outcome requirement of this UoC is the ability to:</li> <li>Understand the basic concepts of encryption technology</li> <li>Master the basic encryption algorithm design principles</li> <li>Complete the basic encryption calculation and process data transmission.</li> </ul>
Remark	