Specification of Competency Standards
for the Retail Industry
Unit of Competency

Functional Area - Website Design and Development

Title	Master the Internet of Things development technology
Code	107218L5
Description	In the process of website design and development, through the unified format or standard of information obtained from the Internet of Things (IoT) to enable communicate and information transfer between various systems so as to achieve diversified information at the website.
Level	5
Credit	6 （For Reference Only）
Competency	Performance Requirements 1. Understand the concept of IoT - Understand the basic structure of the three layers of IoT including the perception layer (Device), network layer (Connect), application layer (Manage) - Master sensing technology and identification technology - Understand the network communication technology, the variety of different communication range and transmission rate of wireless communication network - Understanding heterogeneous network integration technology for IoT - Analyse case studies for future development and challenges 2. Master the development of IoT technology - Utilize devices with sensing, identification and communication capabilities to sense and monitor different scenarios - Apply the information collected by the perceptual layer to transmit to the Internet or wireless communication network - Implement integration of professional and technical networking between the IoT and the industry according to the different needs of the application software development. - Consolidate real-time information and status collected by heterogeneous network technologies, devices and packet formats 3. Exhibit professionalism - Comply with the requirements of the Personal Privacy Ordinance in data collection and process. - Ensure no disturbance of IoT with a large number of different equipment so as to achieve the best service quality and information security.
Assessment Criteria	The integrated outcome requirement of this UoC is the ability to: - Understand the three layers of the basic architecture of IoT - Consolidate real-time information and status collected by heterogeneous network technologies, devices and packet formats - Master the development technology of IoT. Implement perception monitoring, transmission of information to the Internet, technology integration of IoT and the industry and the development of the corresponding application software.
Remark	