Specification of Competency Standards
for the Retail Industry
Unit of Competency

Functional Area - Website Monitoring and Testing Technology

Title	Implement system integration testing
Code	107253L5
Description	In the website testing process, implement system integration test to ensure the normal operation of the overall website.
Level	5
Credit	6 （For Reference Only）
Competency	Performance Requirements 1. Understand the models and methods of system integration testing • Recognize the integration of test models, such as incremental testing and non-incremental testing. • Understand the methods of system integration testing, such as top-down, bottom-up, core systems and sandwich integration test methods. 2. Master the system integration test • Perform functional tests. • Perform regression test to achieve the intended purpose after system modification. If the error is corrected, the new function is implemented without affecting the correctness of the original function of the software. • Perform non-functional testing such as performance testing, stress testing, capacity testing, safety testing, reliability testing, fault tolerance testing, etc. 3. Exhibit professionalism • Ensure some hidden system problems could be reflected in the integration test. • Ensure that the integration test process comply with international standards (such as IEEE standards)
Assessment Criteria	The integrated outcome requirement of this UoC is the ability to: • Understand the models and methods of system integration • Master the purpose, methods and content of the system function test to implement functional testing, regression testing and non-functional testing.
Remark	