

Specification of Competency Standards
for the Retail Industry
Unit of Competency

Functional Area - Website Monitoring and Testing Technology

Title	Implement safety testing
Code	107250L5
Description	In the website testing process, conduct testing on website security system, application and transmission security to ensure the normal operation of the website.
Level	5
Credit	6 (For Reference Only)
Competency	<p>Performance Requirements</p> <p>1. Understand the requirements for safety testing</p> <ul style="list-style-type: none"> • Understand the requirements of security testing, such as deployment and infrastructure, input validation, authentication, authorization, configuration management, sensitive data, session management, encryption, parameter handling, exception management, etc. <p>2. Master the safety system test</p> <ul style="list-style-type: none"> • Implement infrastructure tests such as whether the network provides secure communications, internal firewalls, remote application servers, trust levels for the target environment • Evaluate whether an application is vulnerable to SQL injection and XSS etc. • Identify public access and restricted access; whether a clear service account is requested, how to verify the identity of the caller, how to verify the identity of the database, whether to force the trial account management measures • Support remote system management to ensure the security of configuration storage and whether to isolate administrator privileges • Setup whether to store confidential information; how to store sensitive data; whether to pass sensitive data on the web, and whether to record sensitive data • Implement abnormal management, such as whether to use structured exception handling, whether release too much information to the client • Audit and analyse log records, such as whether to clearly record the activities to be audited, analysis of registration and registration activities • Check the server-side script vulnerability <p>3. Exhibit professionalism</p> <ul style="list-style-type: none"> • Ensure the website security testing does not affect the functionality and performance of the website. • Ensure the website safety test comply with the requirements of the relevant legislation.
Assessment Criteria	<p>The integrated outcome requirement of this UoC is the ability to:</p> <ul style="list-style-type: none"> • Master the knowledge of website security system testing. • Apply the website security system and transmission safety test methods.
Remark	