

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

Functional Area - Website Monitoring and Testing Technology

Title	Implement database testing
Code	107249L4
Description	In the process of system development and operation, in order to ensure the quality of the database for website normal operation, implement necessary database testing and maintenance to identify the website defects due to database errors.
Level	4
Credit	6 ( For Reference Only )
Competency	<p>Performance Requirements</p> <p>1. Understand the basics of database testing</p> <ul style="list-style-type: none"> <li>• Understand the definition, principles and methods of database testing</li> <li>• Understand the steps of database testing, such as unit testing, integration testing, validation testing, system testing</li> <li>• Displays the output of the database test</li> </ul> <p>2. Master the database testing</p> <ul style="list-style-type: none"> <li>• Develop database test plan, including table structure, database integrity and database views</li> <li>• Design database testing</li> <li>• Perform database testing such as defining functions, manipulating functions, querying functions, security and concurrent processing tests etc.</li> <li>• Evaluate the database test results</li> </ul> <p>3. Exhibit professionalism</p> <ul style="list-style-type: none"> <li>• Ensure the database meets the needs, design principles and compatibility etc.</li> <li>• Ensure the website architecture (including hardware, software and network) does not affect the performance of the database.</li> </ul>
Assessment Criteria	<p>The integrated outcome requirement of this UoC is the ability to:</p> <ul style="list-style-type: none"> <li>• Understand the basics of database testing</li> <li>• Master the database model, function, performance and testing etc.</li> <li>• Perform database adjustment and conduct trial run operation.</li> </ul>
Remark	