## Specification of Competency Standards for the Testing, Inspection and Certification Industry Unit of Competency

## Functional Area - Testing Quality Management

Title	Formulate laboratory quality management system
Code	105898L6
Range	This unit of competency (UoC) covers the abilities to formulate and design a quality management system in a testing / calibration laboratory according to its operational needs by interpreting the requirements in relevant international standards and laboratory accreditation scheme.
Level	6
Credit	6 (For Reference Only)
Competency	<ul> <li>Performance Requirements</li> <li>1. Possess knowledge of laboratory quality management system</li> <li>Determine the scope of activities of the laboratory.</li> <li>Analyse a broad range of resources requirements and their availabilities in the laboratory.</li> <li>Interpret the requirements of laboratory quality management system in relevant international standards for testing / calibration laboratories.</li> <li>Interpret the requirements of laboratory quality management system in relevant laboratory creditation scheme.</li> <li>2. Formulate laboratory quality management system</li> <li>Plan and design a quality management system to match with the scope of activities carried out by the laboratory in the following aspects: <ul> <li>document control,</li> <li>review of requests, tenders and contracts,</li> <li>subcontracting of tests and calibrations,</li> <li>purchasing services and supplies,</li> <li>service to customer and complaints handling,</li> <li>control of nonconforming work,</li> <li>improvement,</li> <li>control of nonconforming work,</li> <li>internal audits,</li> <li>management reviews,</li> <li>personnel,</li> <li>accommodation and environmental conditions,</li> <li>test and calibration methods and method validation,</li> <li>equipment,</li> <li>measurement traceability,</li> <li>sampling,</li> <li>handling of test / calibration results,</li> <li>reporting the results.</li> </ul> </li> <li>Develop the plan and procedures for implementing quality management system in the laboratory, calibratory the following components:</li> <li>objectives and tasks,</li> <li>responsibilities of personnel,</li> <li>the dalibration results,</li> <li>reporting the results.</li> </ul>

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	3. Exhibit professionalism
	<ul> <li>Ensure the quality management system is fit for the purpose and complies with the size and scope of the laboratory.</li> <li>Ensure the quality management system plan should be made available to all laboratory staff for its implementation.</li> </ul>
Assessment Criteria	The integrated outcome requirements of this UoC are the abilities to:
	<ul> <li>formulate the quality management system for a laboratory by critically interpreting the requirements in relevant international standards and laboratory accreditation scheme,</li> <li>develop the plan and procedures for implementing the quality management system by determining the scope of activities of the laboratory in compliance with the organisation policy on quality management.</li> </ul>
Remark	The relevant international standards and laboratory accreditation scheme involved in this UoC are as follows:
	<ul> <li>ISO/IEC 17025 General Requirements for the Competence of Testing and Calibration Laboratories</li> <li>HOKLAS 003 Technical Criteria for Laboratory Accreditation</li> </ul>