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

Functional Area - Testing Operations

Title	Implement laboratory quality control procedures
Code	105878L4
Range	This unit of competency (UoC) covers the abilities to implement quality control procedures in a testing laboratory by continuously monitoring the reliability and validity of test results in compliance with the formulated quality control protocol.
Level	4
Credit	2 (For Reference Only)
Competency	 Performance Requirements Possess knowledge of quality control protocol and validity of test results Describe the implementation plan of the formulated quality control protocol. Employ the concepts of continuous improvement processes. Describe the meaning of reliability and validity of test. Identify the acceptance criteria for determining the validity of test results. Outline statistical techniques for analysing quality control data. Implement laboratory quality control procedures Select monitoring methods appropriate for the type and volume of the work undertaken. Record all results in such a way that the trends in testing activities are detectable by use of quality control procedures, e.g.: use of analytical control charts for the monitoring of the ongoing level of precision by analysing certified reference materials, ongoing estimate of the repeatability from replicate tests, ongoing estimate of the recovery from fortification of test samples with certified reference materials, estimation of between-operator precision from testing of the same sample by two or more operators. Verify the accuracy of test data and technical records. Apply statistical techniques to review and evaluate the results. Report findings to relevant personnel concerning the quality control data outside predefined acceptance criteria. Identify potential causes for unacceptable results and nonconformities. Take necessary actions to correct the problem and prevent incorrect results from being reported. Exhibit professionalism Ensure the quality control data are recorded in such a way that trends are detectable and, where practicable, statistical techniques shall be applied to review the results. The integrated outcome requirements of this UoC are the abilities to: implement quality control
	 collect and analyse all necessary data / documentation / records in quality control to identify unacceptable results and nonconformities, implement and monitor corrective actions for correcting the problem and preventing incorrect results from being reported.