

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

Functional Area - Testing Operations

Title	Verify test methods
Code	105762L4
Range	This unit of competency (UoC) covers the ability to verify the standard test method for confirmation, through the provision of objective evidence, that specified requirements have been fulfilled in testing laboratories.
Level	4
Credit	2 (For Reference Only)
Competency	<p>Performance Requirements</p> <p>1. Describe procedures for verification of test method adopted from international/national standard</p> <ul style="list-style-type: none"> • Determine parameters of standard test method to be verified, e.g. equipment, reference materials / standards and/or reagents required, environmental conditions, method performance, staff competence to perform the test. • Identify performance characteristics for system suitability specifications established for test method, e.g.: <ul style="list-style-type: none"> ○ method blanks or un-inoculated media to assess contamination, ○ laboratory control samples to assess accuracy, ○ precision based on the analysis of duplicates, ○ calibration check standards analysed periodically in the analytical batch for quantitative analysis, ○ monitoring quality control samples through the use of control charts. • Employ the principles, concepts, accreditation requirements, traceability and statistical evaluation of results related to method verification. • Apply the concepts of uncertainty to the verification procedures. <p>2. Verify test method adopted from international/national standard</p> <ul style="list-style-type: none"> • Select appropriate technique for method performance determination, e.g.: <ul style="list-style-type: none"> ○ calibration using reference standards and reference materials, ○ comparison of results achieved with other methods, ○ inter-laboratory comparisons, ○ systematic assessment of the factors influencing the result, ○ assessment of uncertainty of results based on scientific understanding of the theoretical principles of the method and practical experience. • Verify test method by using selected technique and analysing appropriate performance characteristics. • Evaluate method verification results and, if any, the associated uncertainties by using appropriate statistical techniques to confirm that the specified requirements of test method have been fulfilled. <p>3. Exhibit professionalism</p> <ul style="list-style-type: none"> • Maintain records of verification of test method that meet the requirements of intended application.
Assessment Criteria	<p>The integrated outcome requirement of this UoC is the ability to:</p> <ul style="list-style-type: none"> • verify the standard test method by using appropriate technique and analysing its performance characteristics to confirm that specified requirements of the test method have been fulfilled.
Remark	