

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

Functional Area - Testing Operations

Title	Validate test methods
Code	105761L4
Range	This unit of competency (UoC) covers the ability to validate laboratory-developed / non-standard test method according to authorised method validation protocol to ensure that the test method is based on sound scientific principles and is fit for the purpose for which it is to be used in testing laboratories.
Level	4
Credit	2 (For Reference Only)
Competency	<p>Performance Requirements</p> <p>1. Determine types and quantities of data / information required for method validation</p> <ul style="list-style-type: none"> <li>• Employ the principles, concepts, accreditation requirements, traceability and statistical evaluation of results related to method validation.</li> <li>• Determine types and quantities of data / information required.</li> <li>• Ensure that equipment calibration complies with appropriate standards.</li> <li>• Confirm that the test method has an acceptable level of uncertainty.</li> </ul> <p>2. Validate test method according to authorised validation protocol</p> <ul style="list-style-type: none"> <li>• Ensure validation protocol is authorised by appropriate personnel.</li> <li>• Validate test method according to validation protocol including: <ul style="list-style-type: none"> <li>○ conduct literature searches on background of testing materials,</li> <li>○ start up, set up/optimise, calibrate and operate equipment to manufacturer's specifications,</li> <li>○ prepare test samples and standards for validation,</li> <li>○ carry out validation tests according to the validation protocol.</li> </ul> </li> </ul> <p>3. Exhibit professionalism</p> <ul style="list-style-type: none"> <li>• Recommend staff training need appropriately.</li> <li>• Recommend update of relevant documentation as a result of the validation.</li> </ul>
Assessment Criteria	<p>The integrated outcome requirement of this UoC is the ability to:</p> <ul style="list-style-type: none"> <li>• validate the laboratory-developed / non-standard test method as fit for purpose according to the authorised validation protocol.</li> </ul>
Remark	