

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

Functional Area - Testing Operations

Title	Verify critical consumables
Code	105880L4
Range	This unit of competency (UoC) covers the abilities to verify critical consumables used in the testing laboratory in compliance with standard specifications or requirements defined in test methods.
Level	4
Credit	2 (For Reference Only)
Competency	<p>Performance Requirements</p> <p>1. Possess knowledge of verifying critical consumables</p> <ul style="list-style-type: none"> • Identify different consumable materials or perishable items that bear a critical influence on test results, e.g.: <ul style="list-style-type: none"> ○ media used for selective, qualitative or quantitative microbiological tests, ○ chemical reagents such as acid / base solutions, ○ apparatus such as cartridge used for solid-phase extraction, ○ glassware. • Identify possible factor(s) affecting the quality of critical consumables. • Describe procedures and acceptance criteria for verification of critical consumables in compliance with standard specifications or test method requirements. • Describe the statistical technique applied, e.g. student t-test for the evaluation. • Employ the concepts of uncertainty of the verification procedures. <p>2. Verify critical consumables</p> <ul style="list-style-type: none"> • Select appropriate method for verification of critical consumables. • Perform the verification of critical consumables in accordance with the documented procedures, e.g. compare the response to unit mass / concentration of both materials using statistical technique or evaluate the calculated purity of the materials with the claimed one. • Determine the acceptance of consumable materials or perishable items for use in routine operation of the laboratory against pre-established criteria. • Maintain verification records of critical consumables for retrieval. • Label the verified consumable materials and store them in appropriate locations such as dry cabinet, freezer or refrigerator. <p>3. Exhibit professionalism</p> <ul style="list-style-type: none"> • Ensure critical consumables are verified and stored properly in the laboratory. • Differentiate the degradation of critical consumables.
Assessment Criteria	<p>The integrated outcome requirements of this UoC are the abilities to:</p> <ul style="list-style-type: none"> • verify critical consumables and/or perishable items that bear influence on test results in compliance with standard specifications or test method requirements, • judge the acceptance of consumable materials or perishable items for use in routine operation of the laboratory against pre-established criteria.
Remark	