

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

Functional Area - Testing Operations

Title	Interpret test results
Code	105868L5
Range	This unit of competency (UoC) covers the abilities to interpret measurement data and observations obtained from laboratory / on-site testing activities and critically justify the conclusion and evaluate the compliance of test samples against specifications and/or requirements.
Level	5
Credit	2 (For Reference Only)
Competency	<p>Performance Requirements</p> <p>1. Possess knowledge of test result interpretation</p> <ul style="list-style-type: none"> • Specify requirements of recording and presenting data and observations. • Explain the principles and requirements of measurement techniques and methods. • Describe relevant scientific and technical terminology of data and observations to be interpreted. • Interpret the requirements and limitations of test methods/standards or documented procedures. • Document the rationales upon which the interpretations are made, e.g.: <ul style="list-style-type: none"> ○ chemical and biochemical reactions involved for colour change of tests and indicators, ○ scope, limitations and reporting limit of test methods, ○ pass / fail evaluation criteria for abuse tests, flammability tests, physical and mechanical tests, and electrical tests, ○ confirmation criteria of identity of target analytes. <p>2. Interpret test results</p> <ul style="list-style-type: none"> • Apply the basis for interpretation of observations and test results. • Observe results of expectations and normal range. • Evaluate samples that are out of scope and determine possible invalid test results. • Conclude valid test results by exercising appropriate judgement and evaluate the compliance of results against international test standards, test methods or specifications. • Assess test results exceeding expectations and reasonable ranges. • Interpret the trends of test results by examining the control charts or other appropriate means. <p>3. Exhibit professionalism</p> <ul style="list-style-type: none"> • Ensure the interpretation of test results complies with industrial practices and relevant categories of standards. • Ensure the rationales upon which interpretations are made are documented and controlled.
Assessment Criteria	<p>The integrated outcome requirements of this UoC are the abilities to:</p> <ul style="list-style-type: none"> • interpret test results and observations independently according to appropriate criteria, • interpret the trends of test results by examining the control charts, • conclude test results by exercising appropriate judgement and evaluate the compliance of test results against relevant specifications of test standards, test methods or specifications.
Remark	