

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

Functional Area - Testing Operations

Title	Prepare laboratory materials, equipment and facilities for chemical testing
Code	105797L3
Range	This unit of competency (UoC) covers the abilities to identify customer requirements and prepare laboratory materials, equipment and facilities required for carrying out chemical tests in testing laboratories.
Level	3
Credit	2 (For Reference Only)
Competency	<p>Performance Requirements</p> <p>1. Identify customer requirements for test request</p> <ul style="list-style-type: none"> • Describe the standard operating procedures of the laboratory and identify relevant records and safety requirements of the laboratory materials, equipment and facilities. • Identify the requirements from the customers, e.g.: <ul style="list-style-type: none"> ○ test standards/methods, ○ statutory limits and regulatory directives. • Describe the maintenance checks and calibration procedures for laboratory equipment and facilities. • Describe the serviceable conditions of laboratory materials, equipment and facilities for carrying out chemical tests. • Apply the recording and documentation system in the laboratory.. <p>2. Prepare required laboratory materials, equipment and facilities</p> <ul style="list-style-type: none"> • Carry out serviceability pre-/after-use checks on equipment according to appropriate standard operating procedures. • Carry out material selection and estimation for the chemical test, e.g.: <ul style="list-style-type: none"> ○ types of equipment required, ○ number of equipment required, ○ facilities being occupied, ○ types and grades of materials required. • Check whether the laboratory items are in the correct working order for the chemical test. • Prepare all the ready-to-use materials for the test in accordance with the test requirements, e.g.: <ul style="list-style-type: none"> ○ solutions and reagents, ○ disposable materials, ○ cleaned labware. <p>3. Exhibit professionalism</p> <ul style="list-style-type: none"> • Maintain and update the after-test records / relevant information such as use of materials and equipment. • Check the conditions of the equipment and facilities after the test according to standard operating procedures.
Assessment Criteria	<p>The integrated outcome requirements of this UoC are the abilities to:</p> <ul style="list-style-type: none"> • estimate types and number of laboratory materials, equipment and facilities required for the chemical test according to the requirements of test standards/methods and standard operating procedures, • prepare required materials correctly, configure equipment in accordance with standard operating procedures, and check laboratory facilities in good working conditions,

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	<ul style="list-style-type: none">• maintain, check, clean and record all the laboratory materials, equipment and facilities for their continuous uses after the chemical test.
Remark	