

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

Functional Area - Testing Operations

Title	Prepare equipment and facilities for biological / microbiological testing
Code	105811L3
Range	This unit of competency (UoC) covers the abilities to prepare equipment and facilities required for carrying out biological / microbiological tests in testing laboratories.
Level	3
Credit	2 (For Reference Only)
Competency	<p>Performance Requirements</p> <p>1. Possess knowledge of the requirements of equipment and facilities for biological / microbiological testing</p> <ul style="list-style-type: none"> • Identify relevant standard operating procedures (SOPs) of equipment and facilities for biological / microbiological testing. • Describe the specifications and requirements of equipment and facilities, e.g.: <ul style="list-style-type: none"> ○ autoclave, ○ hot-air oven, ○ incubator, ○ freezer, ○ biohazard hood or laminar flow cabinet, ○ clean room. • Describe the maintenance checks and calibration procedures for the selected equipment and/or facilities. • Describe the serviceable conditions of equipment and facilities for carrying out biological/ microbiological tests. • Apply the recording and documentation system in the laboratory. <p>2. Prepare required equipment and facilities</p> <ul style="list-style-type: none"> • Identify the types and number of equipment and facilities according to the requirements of biological / microbiological test. • Carry out serviceability pre-/after-use checks on equipment and facilities according to appropriate SOPs. • Check whether the equipment and facilities are in the correct working order for the test, e.g.: <ul style="list-style-type: none"> ○ calibration status and requirements, ○ maintenance, ○ operating conditions. • Check the performance and precision of equipment and facilities in compliance with the specifications of the test. <p>3. Exhibit professionalism</p> <ul style="list-style-type: none"> • Maintain and update the records / relevant information such as use of equipment and facilities. • Check the conditions of the equipment/facilities after the test according to manufacturer's instructions or SOPs.
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 equipment and facilities required for the biological / microbiological test according to specific test method, requirements and procedures, • prepare required items of equipment and facilities by configuring and checking the working conditions of these items in accordance with the specifications of the test,

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