

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

Functional Area - Testing Operations

Title	Perform garment trim tests
Code	105863L4
Range	This unit of competency (UoC) covers the abilities to carry out suitable physical strength and performance tests on garment trims independently, record accurate test data and determine the physical strength and performance of the garment trims in testing laboratories.
Level	4
Credit	2 (For Reference Only)
Competency	<p>Performance Requirements</p> <p>1. Possess knowledge of strength and performance of garment accessories and related tests</p> <ul style="list-style-type: none"> • Describe the functions and the related physical performance of garment trims, e.g. sequins, beads, zippers, buttons, fasteners, embroidery, sewing thread, lace and frills, patchwork, buckles, embellishments, ribbons, hook and loop, hook and eye, hardware (rivets, grommets, snaps, tack buttons, sliders). • Describe the importance of conditioning affecting the physical performance of garment trims. • Employ the principles and methods of carrying out physical strength and performance tests, e.g.: <ul style="list-style-type: none"> ○ peel and longitudinal strength of fasteners, ○ curvature and selvedge of fasteners, ○ attachment, impact and compression strength of buttons, ○ pull-off and slippage resistance, slider deflection and recovery after pull, ○ crosswise chain, top and bottom stop holding and slider lock holding strength of zipper, ○ tensile and elongation strength of embroidery and sewing thread, ○ sharp points and edges of buttons or hardware, ○ hole rupture resistance of buckles, ○ attachment strength of buttons or hardware. • Specify the requirements of physical strength and performance tests to the selected type of garment trims. • Identify relevant physical strength and performance test standards and specifications for garment trims, e.g.: <ul style="list-style-type: none"> ○ international and national standards such as ASTM, ISO, EN, DIN, AS/NZS, CAN/CGSB, JIS, BS, GB, ○ manufacturers' and/or clients' specifications. • Explain the principles and operation of equipment used for physical performance tests. • Apply the concepts of uncertainty and equipment calibration to performance tests for garment trims. <p>2. Perform physical strength and performance tests for garment trims</p> <ul style="list-style-type: none"> • Select appropriate test methods/standards, environmental conditions and test accessories for physical strength and performance tests. • Apply appropriate conditions to the testing equipment, e.g.: <ul style="list-style-type: none"> ○ gauge length and force of tensile tester, ○ cross head speed. • Prepare the required size and number of garment trim sample and apply appropriate conditioning atmosphere to the sample under test. • Carry out physical strength and performance tests on the selected garment trim sample independently according to the test methods/standards.

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	<ul style="list-style-type: none"> • Carry out required validation checks to confirm the environmental and equipment requirements are met. • Record accurate test data and judge test results to confirm the physical strength and performance of the garment trim sample in compliance with the required specifications. <p>3. Exhibit professionalism</p> <ul style="list-style-type: none"> • Ensure all tests are carried out in compliance with good laboratory practices under relevant categories of standards. • Ensure integrity and confidentiality of laboratory data and information by observing the code of conduct as required by the standards and the organisation.
Assessment Criteria	<p>The integrated outcome requirements of this UoC are the abilities to:</p> <ul style="list-style-type: none"> • carry out physical strength and performance tests on selected garment trim independently by applying appropriate testing equipment and test conditions according to the requirements of test methods/standards, • record accurate and reliable test data by data validation and verifying equipment calibration status, • judge test results to confirm the compliance of physical strength and performance of the garment trim against the relevant specifications of test methods/standards and/or manufacturers/clients.
Remark	