

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

Functional Area - Inspection Operations

Title	Formulate inspection plans
Code	105910L5
Range	This unit of competency (UoC) covers the abilities to formulate inspection plans by analysing the scope of inspection activities, equipment used and technical information.
Level	5
Credit	2 (For Reference Only)
Competency	<p>Performance Requirements</p> <p>1. Possess knowledge of planning inspection activities</p> <ul style="list-style-type: none"> • Explain the need of inspection in accordance with organisational priorities. • Analyse the technology used for the manufacture of products to be inspected. • Determine the operation of the processes and the delivery of inspection services. • Differentiate the objectives and technique requirements of different timing of inspection, including: <ul style="list-style-type: none"> ○ pre-shipment inspection, ○ during production inspection, ○ raw materials inspection. • Explain characteristics of operations for different timing of inspection, e.g. quantitative (measuring) and qualitative (descriptive) characteristics and define specifications for these inspection characteristics. • Investigate factors affecting inspection results. <p>2. Formulate inspection plans</p> <ul style="list-style-type: none"> • Justify the need and specifications of inspection plan, e.g. inspect several products and processes with one inspection plan, or one product or process with several inspection plans. • Select with justifications the manufacturing products and processes for inspection. • Establish the criteria of selecting appropriate testing equipment for inspection. • Determine the sequence of inspection operations and identify relevant personnel or department involved in the inspection processes. • Establish the compliance requirements (e.g. defects and acceptance criteria) of products and/or processes to be inspected. • Exercise professional judgement on the inspection results. <p>3. Exhibit professionalism</p> <ul style="list-style-type: none"> • Ensure the inspection plans can be used to justify the compliance of product / process against the inspection requirements.
Assessment Criteria	<p>The integrated outcome requirement of this UoC is the ability to:</p> <ul style="list-style-type: none"> • formulate the inspection plan by setting the sequence of inspection operations and selecting the testing equipment and operation characteristics for inspection.
Remark	