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

Functional Area - Testing Operations

Title	Formulate verification programme for reference and working cultures and sub-cultures
Code	105883L5
Range	This unit of competency (UoC) covers the abilities to formulate a planned programme for verification of reference and working cultures and sub-cultures of microorganisms used in a microbiological testing laboratory.
Level	5
Credit	2 (For Reference Only)
Competency	 Performance Requirements Possess knowledge of reference and working cultures and sub-cultures of microorganisms and their verification techniques Explain the importance of using reference and working cultures for traceability purpose in a testing laboratory. Identify recognised national collection of reference cultures, e.g.: American Type Culture Collection (ATCC), Type Culture Collection of Chinese Academy of Sciences (CGMCC), National Collection of Type Cultures (NCTC), European Collection of Animal Cell Cultures (ECACC). Explain various verification techniques for desired characteristics of the strains in reference and working cultures, e.g.: serological tests, biochemical tests, morphological examination. 2. Formulate verification programme for reference and working cultures and sub-cultures
	 Critically evaluate the scope and requirements of the verification programme for reference and working cultures and sub-cultures. Determine reference cultures of microorganisms claimed to be traceable to a national collection. Identify reference stocks and working stocks of cultures to be verified. Prepare the inventory list and history of sub-culture from reference cultures. Develop detailed verification programme including verification schedules, verification procedures, interpreting verification data. Determine the number of passages for which the purchased reference culture can be sub-cultured and the validity period of culture stocks. Allocate roles and responsibilities of laboratory personnel. Establish the re-verification interval for reference and working cultures.
	Ensure the verification programmes of reference and working cultures and sub-cultures are implemented and monitored effectively.
Assessment Criteria	 The integrated outcome requirements of this UoC are the abilities to: formulate verification programme for reference and working cultures and sub-cultures by critically evaluating the scope and requirements, establish procedures to implement verification programme of reference and working cultures and sub-cultures in the microbiology testing laboratory.
Remark	