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

Functional Area - Testing Operations

Title	Perform sampling and basic field tests on fresh concrete and on-site curing on concrete cubes
Code	105846L3
Range	This unit of competency (UoC) covers the abilities to carry out sampling and basic field tests on fresh concrete and on-site curing on concrete cubes by following prescribed procedures and record reliable test data at testing sites.
Level	3
Credit	2 (For Reference Only)
Competency	 Performance Requirements 1. Possess knowledge and procedures of carrying out sampling and field tests on fresh concrete Describe sampling methods for fresh concrete, casting and curing concrete specimens and identify the requirements of sample conditions. Command the principles and operation of equipment and apparatus used for field tests, e.g. slump cone, flow table, flow cone, cube mould, tamping rod, thermometer. Describe the requirements of equipment calibration and performance check for field tests. Describe the requirements of equipment calibration and performance check for field tests. Perform field sampling and tests on fresh concrete Perform site sampling according to specified requirements, e.g. sampling frequency, selection of samples, minimum sample size. Follow appropriate test methods and apply testing equipment according to the
	 Follow appropriate test methods and apply testing equipment according to the prescribed procedures. Apply appropriate ambient conditions for carrying out field tests. Set up and check the calibration status of equipment and apparatus according to test requirements. Carry out field tests and measurements on fresh concrete, e.g.: slump test, flow table test, flow cone test, temperature of placing concrete, casting test specimen. Record and document reliable field test data. Cure specimens of concrete cubes on site according to specified curing regime. Monitor site curing facilities and record curing conditions regularly. 3. Exhibit professionalism
	 Ensure integrity and confidentiality of test data by observing the relevant code of conduct. Observe safe work practices and use appropriate personal protective equipment at the sampling and testing site.
Assessment Criteria	 The integrated outcome requirements of this UoC are the abilities to: carry out basic sampling and field tests on fresh concrete by applying appropriate testing equipment according to the prescribed procedures, perform on-site curing of concrete cubes and monitor site curing facilities, record and document reliable test data by checking the calibration status of equipment.
Remark	