Functional Area: Network Infrastructure & Operation (Implementation)

1.	Title	Formulate equipment testing procedures
2.	Code	ITCSNO412A
3.	Range	This UoC concerns developing testing procedures for network equipment of various sizes or complexities which include telephony equipment, data network wireless (Mobile or WIFI), transceivers, multiplexors, routers, home media, modem, access network equipment, switches (mechanical or digital), etc.
4.	Level	4
5.	Credit	3
6.	Competency	Performance Requirement 6.1 Possess the knowledge in the subject area • Possess extensive knowledge of the features related to the equipment that are being tested and refer to operational manuals, if and when needed • Possess planning skills, analysing skills and testing techniques • Extensively experienced with operation of testing tools which may include software tools • Capable of exercising discretions or judgments on the following during the formulation process: importance, dependency, complexity, security and other factors which may affect the tests or test results • Extensively experienced with evaluating and analysing quality test results and formulating recommendations • Knowledgeable of health and safety rules and hazards related to the equipment being tested or the tools used during testing 6.2 Formulate equipment testing procedures Be able to: • Identify the equipment to be tested and acquire manufacturers' product manuals, specifications, and performance guides • Determine the areas to test, the objectives of the testing and the benchmarks to achieve i.e. expected result • Define what tools are required to perform the tests and what settings are needed for each test case or level of test • Define any special environment needed to monitor the performance and/or outcome of tests • Register test plans and initiate test log entries which describe the scope, approach, resource (may include test data) and schedule of the intended test activity. Specify testing tasks, who performs the task, if appropriate, and any risks requiring contingency • Specify validated or expected test results and acceptance processes (ref ITCSNO413A) • Document and file the testing procedures complying with testing standards of the company 6.3 Exhibit professionalism • Ensure all documentations are created to the required quality and standard of the organisation • Include consideration to safety in the creation of testing environment and during testing
7.	Assessment Criteria	The integrated outcome requirements of this UoC are the abilities to: i. formulate a suitable test plan/procedure for testing of network equipment which can demonstrate the objectives of the test are achieved ii. provide suitable samples and guidelines on test environment setup to assist testing iii. document the testing procedures and expected results in a manner that can be understood by non technical readers
	Remark	