

Functional Area: Network Infrastructure & Operation (Operation / Support & Maintenance)

1. Title	Compare results under controlled tests	
2. Code	ITCSNO425A	
3. Range	This UoC defines the competency required for comparing results after controlled network testing. These may be results of network performance tests, component tests or network functional tests. Controlled testing implies the test is performed under a “preset” environment with limits or known external factors.	
4. Level	4	
5. Credit	3	
6. Competency	<p>6.1 Possess the knowledge in the subject area</p> <p>6.2 Compare results under controlled tests</p> <p>6.3 Exhibit professionalism</p>	<p><u>Performance Requirement</u></p> <ul style="list-style-type: none"> • Possess extensive experience with test planning, testing procedures and be able to analyse results from testing results or statistics • Possess extensive experience in network performance analysis, network metrics and network components operating characteristics • Possess extensive knowledge in network infrastructure and its performance characteristics • Extensive experience in network optimisation techniques such as queuing theory, routing, switching and transmission optimisation • Understand health and safety rules and hazards related to the equipment and/or tools being used during testing <p>Be able to:</p> <ul style="list-style-type: none"> • Comprehend the network testing plans, testing procedures of defined test cases • Comprehend historical test results for same or similar tests • Acquire test evidences like: logs, monitoring reports, network equipment configurations • Analyse the results of various test cases, after eliminating external factors that may affect the result • Formulate tests comparison list consisting of various comparison factors which may be performance or quality related, etc • Formulate a summary, conclusion and recommendation for the results • Document the analysis methodology conforming to the organisation standard and produce a report on the comparison, with recommendation of actions or areas to be noted • Present the report to appropriate stakeholders • Follow safety procedures at every step during the testing environment setup and while performing testing • Ensure all documentations are done in accordance with the organisation’s policies and standards
7. Assessment Criteria	<p>The integrated outcome requirements of this UoC are the abilities to:</p> <ol style="list-style-type: none"> i. understand the objectives of the testing and the testing logics from the test plan and other related documents. When in doubt, he/she should have the initiative to find other sources to understand the testing ii. collect test results for test cases using different sources iii. analyse testing results (from logs, reports, statistic, etc) so that test comparison can be performed iv. produce a report of result/recommendation/solution with clear justifications, in accordance with the organisation standards 	
Remark		