## Specification of Competency Standards for the Information & Communications Technology Industry Unit of Competency

## Functional Area - Network Infrastructure and Operation

Title	Perform network testing
Code	111107L4
Range	This UoC defines the competency required for performing network performance and/or capacity tests which include telephone network, Personal Area Network (PAN), Local Area Network (LAN), Wide Area Network (WAN) / Low Power Wide Area Network (LPWAN), Metropolitan Area Network (MAN), wireless (Mobile or WiFi) or wireline, etc.
Level	4
Credit	3 (For Reference Only)
Competency	Performance Requirements  1. Possess the knowledge in the subject area  • Be able to:  • Possess extensive experience in test planning, and testing procedures and analysis of test results or statistics from testing equipment  • Able to comprehend and follow test plans, network infrastructure diagrams and
	<ul> <li>configuration setting specifications</li> <li>Possess extensive experience with network performance analysis, defining metrics for testing of networks and network components.</li> <li>Experienced with network optimisation techniques such as queuing theory, routing, switching and transmission optimisation.</li> <li>Possess extensive experience with using testing tools and setting up testing environments</li> <li>Knowledgeable of health and safety rules and hazards related to the equipment and/or tools being used during testing</li> </ul>
	2. Perform network testing
	<ul> <li>Be able to:         <ul> <li>Comprehend the network testing requirements from test plans and test procedures of test cases</li> <li>Plan and setup test environments. Define test baselines and specify how to collect evidence of test cases</li> <li>Perform the test cases as per the test plan and collect test results with evidence like: logs, monitoring reports, network equipment configurations</li> <li>Analyse results and compare with baseline to determine:</li></ul></li></ul>
	3. Exhibit professionalism
	Be able to:

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	<ul> <li>Ensure all documentations are carried out in accordance with the organisation's policies and standards</li> </ul>
Assessment Criteria	The integrated outcome requirements of this UoC are the abilities to:
	<ul> <li>follow test plan, design the testing procedures, setup test environments and carryout network testing systematically in accordance with the test case requirements</li> <li>document the whole testing scenario, results and any observations, in accordance with the organisation documentation standards</li> </ul>
Remark	