1.	Title	Perform bandwidth adjustments for optimum network traffics
1.	Code	ITCSNO420A
2. 3.		
3.	Range	Network infrastructure optimisation is an art of adjusting network bandwidth to achieve an acceptable network capacity. The optimisation process will consider possible latencies caused by various network components leading to inefficient use of network bandwidth which causes low throughput. By adjusting or reconfiguring various components or parameters of the network components, an increase of bandwidth should be gained. Components include switches, routers, fibre optic equipment, microwave radios transmitters, modems, softswitches, multiplexors, etc.
4.	Level	4
5.	Credit	3
6.	Competency	 6.1 Possess the knowledge in the subject area 6.1 Possess the knowledge in the subject area Comprehend network diagrams and access network plans Possess extensive experience with the operating characteristics of the network components and be able to configure or adjust various settings with assistance of technical manuals, if necessary Possess extensive knowledge of various network technologies (NGN, VOIP, TDM, WiMAX, LTE, SS7, HSDPA, IPTV, FTTx, etc.), network components (MPLS, routers, switches, ADSL devices, modems, cables, antennas, etc.), network protocols (TCP/IP, ATM, IEEE 802.x, Ethernet, Frame Relay, etc.), application level services (QoS, encryption, compression, etc.) Possess extensive experience with network monitoring tools, analysis of statistics or performance reports Knowledgeable of health and safety rules and hazards related to the equipment and/or tools while performing the optimisation process Critically understand customers' expectation and company's business goals Be able to: Conduct network performance evaluation by collecting statistics or reports from network monitoring equipment
		 Analyse the statistics on reports from increases on reports from increases of the statistics of the statistics of reports from increases of the statistics of the stati
7.	Assessment Criteria	The integrated outcome requirements of this UoC are the abilities to: i. use reports/statistics/tools for network performance analysis
	Criwiia	ii. identify network inefficiencies and formulate correctional plansiii. coordinate with stakeholders for the network bandwidth adjustment job
Re	mark	

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