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

1.	Title	Perform reconfiguration of core systems
2.	Code	ITCSNO325A
3.	Range	The most visible part of a core telecom network (IP, NGN, ATM, GSM, etc.) to its users is the transmission mechanism part. But the less visible and equally essential part of the core network is the OSS/BSS (Operation Support Systems/Business Support Systems) which supports the service providers' day to day operations. The scope of this UoC describes the competencies for reconfiguration of the core network system. Network systems referred to, in this context, are software systems like OSS/BSS which will be required to be reconfigured when some business services are added or changed. Reconfigurations may be required even for a simple change of service by a subscriber who changes its telephone service or the operator may requires to change the settings at the telephone exchange or apply changes on its billing system, etc.
4.	Level	3
5.	Credit	3
6.	Competency	**Performance Requirement** 6.1 Possess the knowledge in the subject area • Familiar with functions and facilities of the OSS system that enable configuration / reconfiguration of the core network • Knowledgeable of the core network infrastructure • Experienced with configuring network components (gateways, terminals, routers, etc) • Experienced with the SNMP protocol and associated tools for configuring core network components • Able to comprehend operation instructions/manuals • Able to use testing devices and protocol analysers • Able to analyse the impacts of parameter changes in OSS systems on overall core network 6.2 Perform reconfiguration of core systems — Be able to: • Comprehend the job order to determine which services require reconfiguration and the magnitude of the reconfiguration work • Formulate a plan of the reconfiguration work procedure which should include testing or monitoring procedures that can determine the success of the reconfiguration • Determine what tools are required to perform the reconfiguration work i.e. tools provided by the OSS or tools that are developed internally • Make a backup or a recording of the current system configuration details prior performing reconfiguration work • Perform the required reconfiguration • Perform suitable tests to ensure the configuration is correct • Collect statistics and other related information of test results • Document the reconfiguration procedures and settings to formulate the work completion report and seek supervisor or appropriate stakeholder for signoff 6.3 Exhibit professionalism • Follow the required safety procedures while performing the reconfiguration work • Ensure the reconfiguration work is performed to meet the required quality and standards
7.	Assessment Criteria	The integrated outcome requirements of this UoC are the abilities to: i. read the work order and perform the preliminary preparation correctly ii. perform the reconfiguration work successfully iii. test the reconfigured system to ensure it is performing to the job requirement and does not have adverse effects on the physical network or other network systems iv. formulate job completion report with appropriate information that can certify the successful completion of the reconfiguration work v. ensure the work is signed off by appropriate stakeholder
	Remark	