

Functional Area: Network Infrastructure & Operation (Implementation)

1. Title	Perform configuration of core networks equipment
2. Code	ITCSNO311A
3. Range	The scope of this UoC includes core exchange switching equipment, such as softswitches. The functions needed for such configuration may include: operational settings, statistical settings, telecom features like CLI, IP Phone feature, etc.
4. Level	3
5. Credit	3
6. Competency	<p style="text-align: center;"><u>Performance Requirement</u></p> <p>6.1 Possess the knowledge in the subject area</p> <ul style="list-style-type: none"> • Comprehend the manufacturer documentation of the concerned equipment • Understanding the overall network architecture and network/customer requirement • Possess knowledge in various network protocols like TCP/IP, SIP, SDP, MGCP, RSVP-TE, CR-LDP, OSPF-TE, IS-IS-TE, Diameter, COPS, SS#7, etc • Experienced with the functions and operations of network equipment like soft switches, core routers, networking and application servers, etc • Experienced in usage of testing equipment and protocol analysers • Experienced in configuring network equipment <p>6.2 Perform configuration of core networks equipment</p> <p>Be able to:</p> <ul style="list-style-type: none"> • Locate the switches, core routers and other network devices including servers • Prepare a fall back plan by recording or backing up of current settings • Prepare the necessary environment or tools to perform the configuration, such as remote access connection, terminals, Web browsers, etc • Load up the network equipment with proper software • Configure the switches, core routers and other network devices according to the requirements • Perform all necessary tests including stress tests to ensure the equipment is performing and conforming to the requirements • Complete test report • Record all configuration procedures and settings for on-going configuration management and maintenance <p>6.3 Exhibit professionalism</p> <ul style="list-style-type: none"> • Follow safety procedures at every step of the configuration work • Ensure work is completed to the highest standard and conformed to the manufacturer's specifications
7. Assessment Criteria	<p>The integrated outcome requirements of this UoC are the abilities to:</p> <ol style="list-style-type: none"> i. determine configuration details of the network equipment according to requirements ii. locate the correct network equipment from drawings/plans iii. perform the configuration as required by the job order and conform to the manufacturer's network equipment specifications iv. perform appropriate tests to ensure configuration work is working or performing to the required specifications v. document installation details and test results to conform with the organisation standards
Remark	