1.	Title	Build or configure switching/routing devices to deliver data to correct endpoint or
		person
2.	Code	ITCSNO432A
3.	Range	In order to build a successful network a number of important ingredients are needed to be considered. They are: performance, reliability, and security. But this ingredient would be irrelevant if the data is not delivered to the correct destination. This UoC describes the competencies for building or configuring switching/routing devices to the correct endpoint. In the context of secure delivery VPN and IPSec would be considered. The network could be wired or wireless.
4.	Level	4
5.	Credit	4
6.	Competency	 6.1 Possess the knowledge in the subject area 6.1 Possess the knowledge in the subject area Possess extensive knowledge in data communication concepts and how data is transmitted on cables or wireless devices Possess experience with routing and switching protocols like RIP, OSPF, BGP, EGP, etc Experienced with installing and configuring routing and switching devices with reprogram/change routing tables, set routing policies, set VPN tunnelling, etc. Possess extensive knowledge in the security feature of routers and switches, such as VLAN (IEEE 802.1Q), IPSec, VPN, etc Comprehend network plans Possess extensive knowledge of current network protocols like IP, TCP, etc In tune with current and coming wired/wireless network technologies or applications like VOIP, WiMax, 3G, 4G, LTE, broadband Ethernet, etc Able to seek and comprehend vendor product technical manuals
		 6.2 Build or configure switching/routing devices to deliver data to correct endpoint or person Build and/or configure the devices with required tunnels by setting up routers to conform with the organisation's security policies for handling traffics between the endpoints Use appropriate testing tools to test and validate the network setup to ensure data is transfer correctly and securely between endpoints Document the setup details and package the test results for filing and signoff Complete the necessary internal administration procedures to indicate completion of work
		6.3 Exhibit professionalismFollow safety procedures at every step of configuration of network devices when building the secure endpoint connections

Functional Area: Network Infrastructure & Operation (Security)

7. Assessment Criteria	 The integrated outcome requirements of this UoC are the abilities to: i. read job orders or following supervisor's instructions to comprehend the endpoint connection set up requirements ii. build or configure the connections into switching/routing devices iii. ensure the connection of the endpoints are correctly configured by using appropriate tools to verify the connection iv. document the installation work that conforms to the organisation standards and policies, and seek work completion signoff from stakeholders
Remark	