

061206T4CYB

CYBER SECURITY TECHNICIAN LEVEL 6

SEC/OS/CS/CR/03/6/A

Perform computer networking

Nov/Dec 2024



**TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION
COUNCIL (TVET CDACC)**

PRACTICAL ASSESSMENT

Time: 2 HOURS

INSTRUCTIONS TO CANDIDATE:

1. You are required to perform the following tasks
 - i. Task 1: Design star network topology and IP configuration
 - ii. Task 2: Perform cable Termination
 - iii. Task 3: File sharing over a network
2. You have been provided with the following resources for the practical tasks:
 - i. Crimping tool
 - ii. Two working computers
 - iii. Cat5 or Cat 6 cable
 - iv. Rj45 connectors
 - v. Cable tester
 - vi. Wire stripper
 - vii. A plain paper
 - viii. Installed packet tracer

TASK 1

Star network topology

1. Draw on a piece of paper a star network topology with at least three computers and a printer
2. Use packet tracer to design the above topology
3. Assign IP addresses to each end device. Use IP range 192.168.1.0/24 with addresses 192.168.1.1 for the switch, 192.168.1.2 for Computer A and 192.168.1.3 Computer B.
4. Ping computer B from Computer A to test connectivity.

TASK 2

1. Prepare the cable for termination
2. Terminate the cable using Category T568B color coding.
3. Test the cable
4. Configure IP settings as specified.
 - Computer A - IP Address 192.168.1.2 Subnet Mask 255.255.255.0
 - Computer B - IP Address 192.168.1.3 Subnet Mask 255.255.255.0

TASK 3

Share files over the network

1. Create a folder named CDACC and share it across the network.
2. View and access the folder from the other computer in the network.
3. Configure IP settings. Use IP Address 192.168.1.1, Subnet Mask 255.255.255.0 for the first computer and IP Address 192.168.1.2, Subnet Mask 255.255.255.0 for the second computer.

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