

061306T4CSC

COMPUTER SCIENCE LEVEL 6

ICT/OS/CS/CR/07/6/A

Understand Networking and Distributed Systems

Mar/April 2025



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

PRACTICAL ASSESSMENT

TIME: 3 HOURS

INSTRUCTIONS TO CANDIDATE:

1. You are required to perform the following tasks
 - i. *Perform crossover cable Termination*
 - ii. *Design a peer-to-peer network*
 - iii. *Set up a peer-to-peer network*
 - iv. *Perform a network test*
 - v. *Share files over the network*
2. You have been provided with the following resources for the practical tasks:
 - *Crimping tool*
 - *Two working computers*

- *Cat5 or Cat 6 cable*
- *Rj45 connectors*
- *Cable tester*
- *Wire stripper*
- *A plain paper*

TASK 1: Perform crossover cable Termination.

1. Prepare the cable for termination
2. Make one end to T568A color coding, place and crimp the connector.
3. Make the other end to T568B color coding, place and crimp the connector.
4. Test the cable

TASK 2: Design a peer-to-peer network.

1. Sketch on paper a network diagram for a peer-to-peer network connecting two computers directly.
2. Label one computer with IP address 192.168.1.1 and the other computer with IP address 192.168.1.2.
3. Use labels to indicate connecting media.

TASK 3: Set up a peer-to-peer network.

1. Identify all the requirements needed for a peer-to-peer network set up
2. Set the name of the first computer to CDACC1 and the second computer to CDACC2
3. Set physical connectivity using the crossover cable you made
4. 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.

TASK 4: Perform a network test.

1. Test the network connection using PING Utility
2. Check Network Configuration using windows network and sharing center

TASK 5: Share files over the network.

1. Create a folder named Vasha and Share it across the network.
2. View and access the folder from the other computer in the network.