

**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)**

**PRACT**

**MENT**

## OBSERVATION CHECKLIST

|                                                                                                                                                                                                                                                                                                                      |                        |                       |                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------------|-----------------|
| <b>Candidate's Name &amp; Registration Code</b>                                                                                                                                                                                                                                                                      |                        |                       |                 |
| <b>Assessors Name &amp; Registration Code</b>                                                                                                                                                                                                                                                                        |                        |                       |                 |
| <b>Venue of Assessment</b>                                                                                                                                                                                                                                                                                           |                        |                       |                 |
| <b>Date of Assessment</b>                                                                                                                                                                                                                                                                                            |                        |                       |                 |
| <b>Items to be Evaluated:</b> <i>Please award marks as appropriate. Give a brief comment on your observation.</i>                                                                                                                                                                                                    | <b>Marks Available</b> | <b>Marks Obtained</b> | <b>Comments</b> |
|                                                                                                                                                                                                                                                                                                                      |                        |                       |                 |
| <b>TASK 1: Perform crossover cable Termination</b>                                                                                                                                                                                                                                                                   |                        |                       |                 |
| 1. Observed computer laboratory rules<br><i>(Award 2 mark each, else award 0)</i>                                                                                                                                                                                                                                    | 2                      |                       |                 |
| 2. Prepared the cable for termination <ul style="list-style-type: none"> <li>• <i>Unsheathed the cable</i></li> <li>• <i>Cut Cable Wires to the Appropriate Length.</i></li> <li>• <i>Checked the outer jacket and inner TP wires for nicks</i></li> </ul> <i>(Award 1 mark each, else award 0)</i>                  | 3                      |                       |                 |
| 3. Made one end to T568A color coding, placed and crimped the connector. <ul style="list-style-type: none"> <li>• <i>Arranged the wires correctly</i></li> <li>• <i>Trimmed the wire edges to make the eight wires even</i></li> <li>• <i>Crimped correctly</i></li> </ul> <i>(Award 2 marks each, else award 0)</i> | 6                      |                       |                 |
| 4. Made the other end to T568B color                                                                                                                                                                                                                                                                                 |                        |                       |                 |

|                                                                                                                                            |           |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------|-----------|--|--|
| coding, placed and crimped the connector.                                                                                                  |           |  |  |
| • <i>Arranged the wires correctly</i>                                                                                                      | 2         |  |  |
| • <i>Trimmed the wire edges to make the eight wires even</i>                                                                               | 2         |  |  |
| • <i>Crimped correctly</i><br>(Award 2 marks each, else award 0)                                                                           | 2         |  |  |
| 5. Tested the cable<br>(Award 3 marks each, else award 0)                                                                                  | 3         |  |  |
| <b>Sub – Totals 1</b>                                                                                                                      | <b>20</b> |  |  |
| <b>Task 2: Design a Peer-to-Peer Network</b>                                                                                               |           |  |  |
| 1. Sketched on paper a network diagram for a peer-to-peer network connecting two computers directly.<br>(Award 3 marks each, else award 0) | 3         |  |  |
| 2. Labeled one computer with IP address 192.168.1.1 and the other computer with IP address 192.168.1.2.<br>(Award 1 mark, else award 0)    | 1         |  |  |
| 3. Used labels to indicate connecting media.<br>(Award 1 mark, else award 0)                                                               | 1         |  |  |
| <b>Sub – Totals 2</b>                                                                                                                      | <b>5</b>  |  |  |
| <b>TASK 3: Set up a Peer to Peer Network</b>                                                                                               |           |  |  |
| 1. Identified all the requirements needed for a peer to peer network set up<br>(Award 2 marks each, else award 0)                          | 2         |  |  |
| 2. Set the name of the first computer to                                                                                                   | 2         |  |  |

|                                                                                                                                                                                                                                                                                      |            |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--|--|
| CDACC1 and the second computer to CDACC2<br>(Award 2 marks each, else award 0)                                                                                                                                                                                                       |            |  |  |
| 3. Physical connectivity using the crossover cable made in task 1 set correctly<br>(Award 2 marks each, else award 0)                                                                                                                                                                | 2          |  |  |
| 4. Configured IP settings as specified.<br><ul style="list-style-type: none"> <li>First computer - Used IP Address 192.168.1.1, Subnet Mask 255.255.255.0</li> <li>Second computer - IP Address 192.168.1.2, Subnet Mask 255.255.255.0</li> </ul> (Award 4 marks each, else award 0) | 4<br><br>4 |  |  |
| <b>Sub-Total 3</b>                                                                                                                                                                                                                                                                   | <b>4</b>   |  |  |
| <b>Task 4: Testing the Network</b>                                                                                                                                                                                                                                                   |            |  |  |
| 1. Tested the network connection using PING Utility correctly<br>(Award 6 marks, else award 0)                                                                                                                                                                                       | 6          |  |  |
| 1. Checked Network Configuration using windows network and sharing center<br>(Award 5 marks, else award 0)                                                                                                                                                                           | 5          |  |  |
| <b>Sub-Total 4</b>                                                                                                                                                                                                                                                                   | <b>11</b>  |  |  |
| <b>TASK 5: Share Files Over the Network</b>                                                                                                                                                                                                                                          |            |  |  |
| 1. Created a folder named Vasha and shared it across the network.<br>(Award 5 marks, else award 0)                                                                                                                                                                                   | 5          |  |  |
| 2. Viewed and accessed the folder from the other computer in the network.<br>(Award 5 marks, else award 0)                                                                                                                                                                           | 5          |  |  |

|                                                                                                                                                                                                                                                                                    |           |              |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------|--|
| <b>Sub-Total 5</b>                                                                                                                                                                                                                                                                 | <b>10</b> |              |  |
| <b>GRAND TOTAL</b>                                                                                                                                                                                                                                                                 | <b>60</b> |              |  |
| <b>ASSESSMENT OUTCOME</b>                                                                                                                                                                                                                                                          |           |              |  |
| <p>The candidate was found to be:</p> <p style="text-align: center;">Competent <input type="checkbox"/> Not yet Competent <input type="checkbox"/></p> <p><i>(Please tick as appropriate)</i></p> <p><i>(The candidate is competent if the candidate obtains at least 50%)</i></p> |           |              |  |
| <b>Feedback from the Candidate:</b>                                                                                                                                                                                                                                                |           |              |  |
| <b>Feedback to the Candidate:</b>                                                                                                                                                                                                                                                  |           |              |  |
| <b>Candidate Signature</b>                                                                                                                                                                                                                                                         |           | <b>Date:</b> |  |
| _____                                                                                                                                                                                                                                                                              |           | _____        |  |
| <b>Assessor's Signature</b>                                                                                                                                                                                                                                                        |           | <b>Date</b>  |  |
| _____                                                                                                                                                                                                                                                                              |           | _____        |  |