

061205T4CYB

CYBER SECURITY LEVEL 5

SEC/OS/CS/CR/03/5/A

Perform Computer Networking

Nov/Dec 2024



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

**PRACTICE**

**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: Network Setup:</b>                                                                                     |                        |                       |                 |
| Successfully launched cisco packet tracer on the computer <b>(award 2 marks or zero)</b>                          | <b>2</b>               |                       |                 |

|                                                                                                                                                 |   |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------|---|--|--|
| a) Created accounts department                                                                                                                  | 2 |  |  |
| b) Accounts department with at least two pcs.<br>One named ACC-PC1 and the other ACC-PC2                                                        | 2 |  |  |
| c) Created delivery department                                                                                                                  | 2 |  |  |
| d) Accounts department with at least two pcs.<br>One named DEL-PC1 and DEL-PC2                                                                  | 2 |  |  |
| <b>(Award 2 marks or zero for each department and 2 marks or zero each for pcs)</b>                                                             |   |  |  |
| a) Installed a router<br>From the device toolbar, selected and dragged a router                                                                 | 2 |  |  |
| b) Installed two switches<br>From the device toolbar, selected dragged two switches. One for acc department and one for delivery department     |   |  |  |
| <b>(Award 2 marks or zero for each correct number)</b>                                                                                          |   |  |  |
| a) Configured IP address<br>Click on DEL-PC1, go to the Desktop tab, and open the IP Configuration tool. Set the IP address. Do it to all PCs   | 2 |  |  |
| b) Configured subnet mask<br>Click on DEL-PC1, go to the Desktop tab, and open the IP Configuration tool. Set the Subnet mask. Do it to all PCs | 2 |  |  |
| c) Configured gateways                                                                                                                          |   |  |  |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                 |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|--|--|
| <p>Click on DEL-PC1, go to the Desktop tab, and open the IP Configuration tool.</p> <p>Set the gateways. Do it to all PCs</p> <p><b>N/B</b> should adhere to network address 192.168.40.0/24</p> <p><b>(Award 2 marks or zero for each correct configuration)</b></p>                                                                                                                                                                                                                                                        | <b>2</b>                        |  |  |
| <p>Used appropriate cabling</p> <p>a) Router to switch 1<br/>Used a straight through cable</p> <p>b) Router to switch 2<br/>Used a straight through cable</p> <p>c) Switch to accounts pcs<br/>Used a straight through cable</p> <p>d) Switch to delivery pcs<br/>Used a straight through cable</p> <p><b>N/B:</b> in case of a connection between the two similar devices should use a crossover cable</p> <p><b>(Award 1 mark for each correct cable used for the routers and 2 marks each for the switch or zero)</b></p> | <p><b>1</b></p> <p><b>1</b></p> |  |  |
| <p>Tested the connectivity between pcs in accounts and delivery</p> <p><b>(Award 4 marks or zero if data packets are transmitted using the ping command)</b></p>                                                                                                                                                                                                                                                                                                                                                             | <b>4</b>                        |  |  |
| <b>Subtotal 1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>30</b>                       |  |  |

| <b>TASK 2: Security configuration</b>                                                                                                                                                                                                                                                                                                           |          |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--|--|
| a. Configured terminal<br>Router> enable<br>Router# configure terminal<br>Router(config)#                                                                                                                                                                                                                                                       | <b>3</b> |  |  |
| b. Hostname name<br>Router(config)# hostname MyRouter<br>MyRouter(config)#                                                                                                                                                                                                                                                                      | <b>3</b> |  |  |
| c. Enable secret password<br>MyRouter(config)# enable secret<br>mySecretPassword                                                                                                                                                                                                                                                                | <b>3</b> |  |  |
| d. domain-lookup<br>No IP domain-lookup<br>MyRouter(config)# no ip                                                                                                                                                                                                                                                                              |          |  |  |
| <b>(Award 3 marks each or zero for correct configuration)</b>                                                                                                                                                                                                                                                                                   |          |  |  |
| Set the password for console and vty login<br>MyRouter(config)# line con 0<br>MyRouter(config-line)# password<br>consolePassword<br>MyRouter(config-line)# login<br>MyRouter(config-line)# exit<br>MyRouter(config)# line vty 0 4<br>MyRouter(config-line)# password vtyPassword<br>MyRouter(config-line)# login<br>MyRouter(config-line)# exit | <b>4</b> |  |  |
| <b>(Award 4 marks each or zero for correct coding)</b>                                                                                                                                                                                                                                                                                          | <b>4</b> |  |  |

|                                                                                                                                                                                                                                                                                    |           |              |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------|--|
| <b>Subtotal 2</b>                                                                                                                                                                                                                                                                  | <b>20</b> |              |  |
| <b>GRAND TOTAL</b>                                                                                                                                                                                                                                                                 | <b>50</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>  |  |
| _____                                                                                                                                                                                                                                                                              |           | _____        |  |