

061206T4CYB

CYBERSECURITY TECHNICIAN LEVEL 6

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

PERFORM COMPUTER NETWORKING

Nov. / Dec. 2023



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

PRACTICAL ASSESSMENT GUIDE

ASSESSOR'S GUIDE

INSTRUCTIONS TO THE ASSESSOR

1. You are required to mark the practical as the candidate performs the tasks.
2. You are required to take video clips at critical points.
3. Allocate the candidate **10 minutes** to carefully read through the instructions and to collect the tools/resources required for the tasks.
4. Allocate the candidate **3 Hours** to perform **two (2)** practical tasks.
5. The candidate should write his/her name, registration code, date and sign in the practical assessment attendance register.
6. Ensure the candidate has a name tag and registration code at the back and front.
7. Ensure the candidate has been provided with:
 - 2 cables of 1M (about 3fts) each of UTP cable.
 - 6 or more RJ-45 connectors
 - 2 Computers with an operating system installed.
 - 1 Switch connected to Network
 - Network tool kit
 - Printer
 - Printing papers
 - Reliable internet connection.
 - Internet connection (cable)

OBSERVATION CHECKLIST

Candidate's name & Registration No.			
Assessor's name & Reg. code			
Unit(s) of Competency	Perform Computer Networking		
Venue of Assessment			
Date of assessment			
<i>(Award mark(s) appropriately as guided for in the items for evaluation indicated. Give a brief comment where necessary)</i>			
Items to be evaluated:	Marks Available	Marks Obtained	Comments
Task 1: Perform straight through termination			
<p><i>Adhered to prescribed Safety standards</i></p> <p>✓ <i>Protective over coat – Award 1 mark</i></p> <p>✓ <i>safety Boots – Award 1 mark</i></p> <p>✓ <i>check for loose fitting clothes –Award 1 marks</i></p> <p>i. Strip approximately 2 inches of the outer jacket from both ends of the cable - <i>Award 1 mark</i></p> <p>ii. Untwisting, separating and arranging the wires in the correct order based on the color codes – <i>White-orange, Orange, White-green, Blue, White-blue, Green, White brown, Brown</i> <i>Award 6 marks</i></p> <p>iii. Trimming the wires to an even length and insert the wires into the RJ-45 connector in the correct order, from left to right <i>Award 3 marks</i></p> <p>iv. Use the cable crimping tool to crimp the connector onto the cable. Apply firm pressure to ensure a secure connection <i>Award 3 marks</i></p> <p>v. Repeat the same process on the other end of the cable, making sure to use the same wiring scheme <i>Award 4 marks</i></p> <p><i>Terminating the other cable using the same process and testing – 5 marks</i></p>	25		
Task 2: Network the computers and the printer to enable them share resources over the network.			

<p>✓ Connect the Ethernet cables from the switch to the computers and printer – <i>Award 1 mark</i></p> <p>✓ Access network settings on the computer and change adapter settings – <i>Award 2 marks</i></p> <p>✓ Configure the IP addresses, subnet mask and default gateway – <i>Award 2 marks</i></p> <p>Mapping Printer to the network</p> <p>i. Enabled network printing from the printers control panel – <i>Award 4 marks</i></p> <p>ii. Assigned the printer static IP address that is within the same subnet as the computers on the network – <i>Award 4 marks</i></p> <p>iii. On the networked computers, access the Devices and Printers settings and add a network printer – <i>Award 4 marks</i></p> <p>iv. Use the IP address that was assigned to the printer and follow the steps to finish mapping - <i>Award 4 marks</i></p> <p>v. Test the printer settings configuration – Print from this computer to ensure it has been installed correctly – <i>Award 4 marks</i></p>	25		
	50		

ASSESSMENT OUTCOME**The candidate was found to be:**Competent Not yet competent *(Please tick as appropriate)****(The candidate is competent if s/he gets 50% or higher of the items of evaluation correct)*****Feedback to candidate:****Feedback from candidate:**

Candidate's Signature -----	Date -----
Assessor's Signature -----	Date -----