

061006T4ICT

ICT TECHNICIAN LEVEL 6

IT/OS/ICT/CR/01/6

PERFORM COMPUTER NETWORKING

July/August 2024



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

OBSERVATION CHECKLIST

INSTRUCTIONS TO ASSESSOR

1. Assess the candidate as the practical progresses observing the critical areas
2. You are required to mark the practical as the candidate perform the tasks
3. You are required to take video clips at critical points
4. Ensure the candidate has a name tag and registration code at the back and front

This guide consists of FIVE (5) printed pages.

Assessor should check the guide to ascertain that all the pages are printed as indicated and that no questions or answers are missing

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			
Items to be evaluated	Marks Available	Marks obtained	Comments
1. Identified resource requirements for network configuration <ul style="list-style-type: none"> • Computer • Router • Switch • Ethernet cable (Award 2marks or zero)	2		
2. Observed occupational safety and health precautions in the practical. <ul style="list-style-type: none"> • Ventilation • Lighting • Surge Protection • Dry Hands • Power Down (Award 1 mark each)	5		
3. Demonstrated ability to set up the router and connect it to the computer. <ul style="list-style-type: none"> • Plug in the router • Connect to the switch • Connect with the computer • Switch on the computer • Open the web browser • Access the router settings (Award 1 mark each)	6		

4. Appropriately entered the IP address and login to the router on the web page (Award 2marks each)	4		
5. Demonstrated understanding of basic configuration <ul style="list-style-type: none"> • Change default login credentials • Setup internet connection • Enter username/ password (Award 2 marks each)	6		
6. Maintained proper protective precautions <ul style="list-style-type: none"> • Work Area • Cables management (Award 2marks or zero)	2		
7. Checked Router for proper wireless connectivity <ul style="list-style-type: none"> • Wireless settings • Wireless security (Award 1 mark each)	2		
8. Set up platforms for wireless network configuration <ul style="list-style-type: none"> • Perform proper IP allocation • Input username • Input Password (Award 1 mark each)	3		
9. Demonstrated ability to Configure the wireless network <ol style="list-style-type: none"> 1. Wireless Settings: <ul style="list-style-type: none"> • Went to the Wireless or WLAN settings section. 2 • SSID (Network Name): Entered a unique name for the wireless network. (ICTNet) 2 • Channel: Set to Auto or choose a channel that had the least 2 			

<p>interference (commonly 1, 6, or 11 in the 2.4 GHz band).</p> <p>2. Wireless Security:</p> <ul style="list-style-type: none"> • Security Mode: Choose WPA3-Personal for strong security. • Encryption: Selected AES encryption. • Password/Passphrase: Entered a strong password (minimum of 12 characters, mixing letters, numbers, and symbols). <p>3. MAC Address Filtering:</p> <ul style="list-style-type: none"> • Enabled MAC address filtering to allow only specific devices to connect to your network. • Added the MAC addresses of the devices to the allowed list. <p>4. Firewall Settings:</p> <ul style="list-style-type: none"> • Enabled the router's firewall to protect against external threats. • Configured any necessary rules to allow or block specific traffic as needed. <p>5. Disabled WPS:</p> <ul style="list-style-type: none"> • Disabled Wi-Fi Protected Setup (WPS) as it can be vulnerable to attacks. <p>(Award 2 marks each)</p>	<p>2</p> <p>2</p> <p>2</p> <p>2</p> <p>2</p> <p>2</p> <p>2</p>		
<p>10. Used equipment's provided well and maximally as per manufacturer's instructions.</p> <ul style="list-style-type: none"> • Correct procedure • avoid damage • ensure safety • read instructions <p>(Award ½ mark each)</p>	<p>2</p>		
<p>11. Test the Connection:</p> <ul style="list-style-type: none"> • Disconnected the Ethernet cable and connect to the wireless network using the SSID and password you configured. • Ensure you can access the Internet and other network resources. 	<p>1</p> <p>1</p>		

<ul style="list-style-type: none"> Connected the newly configured network to the laptop or the smartphone (Award 1 marks for each or zero) 	1		
12. Safely shut down the router and the computer (Award 2 marks or zero)	1		
TOTAL	60		
<p>The candidate was found to be:</p> <p>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 s/he gets 50 of the items correct)</i></p>			
Feedback from candidate:			
Feedback to candidate:			
Candidate's signature:	Date:		
Assessor's signature:	Date:		