

061005T4ICT

ICT TECHNICIAN LEVEL 5

IT/OS/ICT/CR/01/5

Perform Computer Networking

July/August 2025



**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

OBSERVATION CHECKLIST

Candidate's Name & Registration Code	
Assessors Name & Registration Code	
Venue of Assessment	
Date of Assessment	

Items to be Evaluated: <i>Please award marks as appropriate. Give a brief comment on your observation.</i>	Marks Available	Marks Obtained	Comments
TASK: Set up a functional Local Area Network			
1. Identified at least one required device, tool, and material for LAN setup <ul style="list-style-type: none"> i. Router ii. Network Tester iii. Ethernet cable <i>(Award 1 mark for each)</i>	3		
2. Connected all network devices <ul style="list-style-type: none"> i. Devices connected on point-point topology ii. Connected switch to one computer iii. Neat and organized cable management <i>(Award 1 mark for each)</i>	3		
3. Assigned static IP addresses correctly <ul style="list-style-type: none"> i. Unique IP addresses for each device ii. Correct IP range used iii. No conflicts observed <i>(Award 4 marks for each)</i>	12		
4. Configured the default gateway and subnet mask <ul style="list-style-type: none"> i. Default gateway set accurately ii. Subnet mask matches network configuration 	15		

<ul style="list-style-type: none"> iii. Applied settings correctly in network adapter <p><i>(Award 5 marks for each)</i></p>			
<p>5. Verified physical connections and cable integrity using test tools</p> <ul style="list-style-type: none"> i. Used cable tester appropriately ii. Verified all link lights are active <p><i>(Award 2 marks for each)</i></p>	4		
<p>6. Installed and configured network software</p> <ul style="list-style-type: none"> i. Installed utility software ii. Configured firewall settings iii. Applied software settings for Local Area Network communication <p><i>(Award 5 marks for each)</i></p>	15		
<p>7. Conducted successful ping tests between workstations</p> <ul style="list-style-type: none"> i. Used command prompt to ping peer the computers ii. Confirmed replies with no packet loss iii. Identified unreachable devices if any <p><i>(Award 3 marks for each)</i></p>	9		
<p>8. Detected and resolved at least one connectivity issue</p> <ul style="list-style-type: none"> i. Identified specific issue <ul style="list-style-type: none"> a) Wrong IP b) Cable fault ii. Explained resolution steps clearly 	9		

<p>iii. Verified resolution through re-testing</p> <p><i>(Award 3 marks for each)</i></p>			
<p>9. Documented configuration steps and results clearly</p> <p>i. Step-by-step documentation</p> <p>ii. Included IP schemes, screenshots, test results</p> <p>iii. Clear labeling and logical sequence</p> <p><i>(Award 4 marks for each)</i></p>	12		
<p>10. Demonstrated safe and efficient use of networking tools</p> <p>i. Proper handling of cables, tools, and devices</p> <p>ii. Maintained workstation cleanliness and safety</p> <p>iii. Followed safety precautions</p> <p>a) Powered off when connecting</p> <p>b) Wore PPEs</p> <p><i>(Award 2 marks for each)</i></p>	6		
<p>11. Ensured all devices were powered and functional</p> <p>i. Verified all devices were on and responsive</p> <p>ii. Checked status indicators on devices</p> <p>iii. Restarted devices if needed</p> <p><i>(Award 2 marks for each)</i></p>	6		
<p>12. Submitted a basic testing report with screenshots and notes</p>	6		

<p>i. Report includes test summaries</p> <ul style="list-style-type: none"> • ping results <p>ii. Screenshots of IP configuration and device status</p> <p>iii. Notes on what worked and any issues encountered</p> <p><i>(Award 2 marks for each)</i></p>			
GRAND TOTAL	100		
ASSESSMENT OUTCOME			
<p>The candidate was found to be:</p> <p style="text-align: center;"> Competent <input style="width: 40px; height: 20px; border: 1px solid black;" type="checkbox"/> Not yet Competent <input style="width: 40px; height: 20px; border: 1px solid black;" 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>			
Feedback from the Candidate:			
Feedback to the Candidate:			
Candidate Signature		Date:	
_____		_____	
Assessor's Signature		Date	
_____		_____	

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