

061006T4ICT

ICT TECHNICIAN LEVEL 6

IT/OS/ICT/CR/6/6

PERFORM COMPUTER REPAIR AND MAINTENANCE

NOV/DEC 2023



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

PRACTICAL ASSESSMENT

INSTRUCTIONS TO THE ASSESSOR

1. Allocate **THREE HOURS** to the candidate to perform the practical task.
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 No.			
Assessor's name & Reg. code			
Unit(s) of Competency	PERFORM COMPUTER REPAIR AND MAINTENANCE		
Venue of Assessment			
Date of assessment			
<i>(Indicate the Marks available and Marks obtained respectively. Award Marks appropriately as guided for in the items for evaluation indicated. Give a brief comment where necessary)</i>			
Items to be evaluated:	Marks allocated	Marks obtained	Comments
1. Performed Hardware Inspection <ul style="list-style-type: none"> ✓ Clean the Exterior. ✓ Inspect the Power Supply. ✓ Open the Case ✓ Inspect the Inside ✓ Check Cables ✓ Check Connectors ✓ Inspect Expansion Slots ✓ Check for Unusual Sounds ✓ Performed Basic Functionality test <p><i>(Award 1 Mark for procedure correctly mentioned=9 Marks)</i></p>	9		
2. Performed Backup <ul style="list-style-type: none"> ✓ Identify Data to Back up ✓ Choose Backup Method ✓ Select Backup Media 	7		

<ul style="list-style-type: none"> ✓ Backup Schedule ✓ Use Backup Software ✓ Initiate the Backup ✓ Verify Backup Integrity <p><i>(Award 1 Mark for each correct procedure followed =7 Marks)</i></p>			
<p>3. Performed Cleaning and dust removal</p> <ul style="list-style-type: none"> ✓ Remove External dust. ✓ Open the Case (if applicable). ✓ Blow Out Internal Dust. (fan, heatsink, Power Supply, Expansion Slots and Memory Slots, Motherboard and Components). ✓ Clean the Case and Components ✓ Reassemble the computer ✓ Reconnect and Power On <p><i>(Award 1 Mark for each correct procedure followed =6 Marks)</i></p>	6		
<p>4. Performed Thermal Paste Replacement</p> <ul style="list-style-type: none"> ✓ Gather the tools and new thermal paste ✓ Prepare the Workspace ✓ Access the CPU or GPU ✓ Remove the Old Thermal Paste ✓ Apply New Thermal Paste ✓ Reattach the Heatsink ✓ Tighten the Screws ✓ Reconnect all cables and fan ✓ Power On and Monitor Temperature <p><i>(Award 1 Mark for each of the correct procedure=9 Marks)</i></p>	9		
<p>5. Performed Software Troubleshooting</p>	10		

<ul style="list-style-type: none"> ✓ Understand the problem ✓ Recreate the Problem ✓ Check for System Requirements. ✓ Restart the Software ✓ Restart the Computer ✓ Check for Conflicts ✓ Perform a Clean Boot ✓ Check for Disk Space ✓ Update or Reinstall the Software ✓ Create a New User Profile <p><i>(Award 1 Mark for correct procedure followed =10 Marks)</i></p>			
<p>6. Performed Hard Drive Maintenance.</p> <ul style="list-style-type: none"> ✓ Check Disk Health ✓ Defragment (if using HDD) ✓ Run Disk Cleanup ✓ Remove Unneeded files ✓ Scan for Malware ✓ Organize your files ✓ Check for disk errors ✓ Check for Fragmented Files ✓ Plan for Longevity <p>(Award 1 Mark for correct procedure followed=9 Marks)</p>	9		
<p>7. Reseat RAM modules and expansion cards.</p> <p>Reseating RAM Modules</p> <ul style="list-style-type: none"> ✓ Open your Computer Case ✓ Ground yourself ✓ Locate the RAM Modules 	17		

<ul style="list-style-type: none"> ✓ Release the Clips ✓ Remove the RAM Module ✓ Inspect the Module ✓ Reseat the RAM Module ✓ Close the Computer Case <p>Reseating Expansion Cards</p> <ul style="list-style-type: none"> ✓ Open your Computer case ✓ Ground yourself ✓ Identify the Expansion Card ✓ Release any Latches or Locks ✓ Gently Remove the card ✓ Inspect the Card ✓ Reseat the Card ✓ Secure the Card ✓ Close the Computer Case <p><i>(Award 1 Mark for procedure followed in creating the program=17 Marks)</i></p>			
<p>8. Checked Power Supply.</p> <ul style="list-style-type: none"> ✓ Shut down and Unplug Your Device ✓ Ground Yourself ✓ Inspect the Power Cord and Outlet ✓ Check the Power Supply Unit ✓ Use a Multimeter ✓ Check Power Supply Capacity ✓ Listen for Unusual Sounds ✓ Test with a Different Power Supply ✓ Check for Voltage Switch ✓ Replace the Power Supply ✓ Reassemble and test 	11		

<p><i>(Award 1 Mark for each correct procedure followed=11 Marks)</i></p>			
<p>9. Carried Cable management.</p> <ul style="list-style-type: none"> ✓ Assess the computer and cables ✓ Gather Necessary Tools ✓ Label Cables ✓ Untangle and straighten cables ✓ Disconnect Cables ✓ Bundle cables with ties or straps ✓ Ensure adequate Length ✓ Separate Power and Data Cables <p><i>(Award 1 Mark for each correct procedure followed=8 Marks)</i></p>	8		
<p>10. Performed final test</p> <ul style="list-style-type: none"> ✓ Verify Repair Completion ✓ Reassemble the System ✓ Double-Check All Connections ✓ Power On the System ✓ Check BIOS/UEFI settings ✓ Test all Hardware Components ✓ Test System Performance ✓ Software test ✓ Test Data and Files <p><i>(Award 1 Mark for correct procedure followed=(9 Marks)</i></p>	9		

11. Carried out Documentation <ul style="list-style-type: none"> ✓ Document System Inventory ✓ Capture System Configurations ✓ Log Maintenance Activities ✓ Record Repairs and Troubleshooting ✓ Document troubleshooting solutions <p><i>(Award 1 Mark for correct procedure followed=5 Marks)</i></p>	5		
TOTAL	100		
ASSESMENT OUTCOMES			
<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 s/he gets 50% or higher)</i></p>			
Feedback from candidate:			
Feedback to candidate:			
Candidate's signature:	Date:		
Assessor's signature:	Date:		