

061306T4CSC

COMPUTER SCIENCE LEVEL 6

ICT/OS/CS/CR/02/6/A

Understand Operating Systems

March/April 2025



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

PRACTICAL ASSESSMENT

Time: 3 HOURS

INSTRUCTIONS TO CANDIDATES:

1. In this practical assessment, you are required to perform the following tasks:
 - i. **TASK 1:** *Gather and analyze system information and perform system diagnosis.*
 - ii. **TASK 2:** *Manage computer system processes and performance.*
 - iii. **TASK 3:** *Manage disks and storage volumes.*
 - iv. **TASK 4:** *Configure users and permissions.*
2. **You have been provided with the following resources:**
 - i. *A working computer*
 - ii. *Installed Operating System*

Task 1:

Gather and analyze system information and perform system diagnosis. (10 Marks)

(All screen shots should be saved in a folder name "Candidate Prac T1" on the desktop)

- i. Use tasklist, or wmic commands to gather system details screenshot and save screenshot as 'sysdet'.
- ii. Check and install necessary updates of the operating system screenshot and save screenshot as 'memdat'.
- iii. Check and log the uptime of the system screen shot and save screenshot as 'logdat'.

Task 2:

Manage system processes and performance. (10 Marks)

(All screen shots should be saved in a folder name "Candidate Prac T2" on the desktop)

- i. Identify and terminate a non-responsive process using 'taskkill' screenshot the taskkill window and save the screenshot as 'tasterm'.
- ii. Monitor system performance using Task Manager or Resource Monitor, screenshot the performance monitoring window and save as 'sysperf'.
- iii. Create a script to automate the launching or closing of the MS Word program screenshot the script and save as 'autospt'.

Task 3:

Configure disks and storage volumes (10 Marks)

(All screen shots should be saved in a folder name "Candidate Prac T3" on the desktop)

- i. Use the shrink tool to create and format a new partition. Name the partition 'AUX STORAGE'.
- ii. Check local disk C drive for errors using chkdsk screenshot the chkdsk window and save screenshot as 'dschk'.
- iii. Analyze storage usage and clear temporary files, screenshot the storage usage analysis window and save screenshot as 'srgug'.

Task 4: Configure users and permissions.

(20 Marks)

(All screen shots should be saved in a folder name "Candidate Prac T4" on the desktop)

- i. Create a new user account named 'SCHOLAR' with limited permissions.
- ii. Assign only 'READ' file access permissions using 'icacls' or through the GUI on the SCHOLAR account, screenshot the permissions window and save screenshot as '*perasn*'.*'*
- iii. Configure password policies; minimum length (6 Characters), compulsory inclusion of numbers and symbols, screenshot the window.
- iv. Lock the main account with the password "Access#25".

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