

06130T4CSC

COMPUTER SCIENCE LEVEL 6

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

ICT/OS/CS/CR/02/6/B

Understand Operating Systems

July/August 2025



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

PRACTICAL ASSESMENT

DURATION: TO RUN THROUGHOUT THE TRAINING

INSTRUCTIONS TO CANDIDATE:

1. In this practical assessment, you are required to perform the following tasks:
 - i. *Install Windows operating system*
 - ii. *Gather System Information*
 - iii. *Perform System performance*
 - iv. *Perform disk storage management*
 - v. *Configure file permissions*
2. You have been provided with the following resources:
 - i. *A working computer*
 - ii. *Windows 10 operating system set-up in a storage medium*
 - iii. *A 1-minute video*
 - iv. *Internet access*

- v. *Operating System -on a bootable Flash drive*

Create a folder on the desktop and name in CDACCPRAC

All your screenshots should be saved in “CDACCPRAC” folder

Task 1: Install Windows Operating System

- i. Check system requirements
- ii. Take a screenshot and save it as ‘*SystReq*’
- iii. Back up data
- iv. Format the computer to install the operating system provided in the bootable disk/flash disk.

Task 2: Configure the computer

- i. Set up a primary user account ***NB:(do not set a password)***

Task 3: Gather System Information

- v. Use the Run dialog box to gather detailed hardware and software information.
- vi. Take a screenshot and save it as *SysInfo*
- vii. Use the Command prompt to gather software system information
- viii. Take a screenshot and save it as *SysInfo1*

Task 4: Manage Process

- i. Observe process information using the task manager
- ii. Document:
 - a) Information for at least 3 processes
 - The name of the process
 - PID (Process Identifier)
 - Status
 - User name: The user account under which the process is running.
 - CPU: The percentage of CPU resources the process is currently using.
 - The amount of physical RAM the process is currently using.
 - Disk: The rate of disk I/O (read/write operations) the process is performing.
 - b) A least 3 resource intensive processes
 - c) Analyze start-up processes and disable 3 unnecessary start-up processes

- iii. End a non-responsive task

Task 5: Monitor System Performance

- i. Use the task manger to monitor performance of the CPU, Memory and Disk
- ii. Take a screenshot of each after 30 seconds of observation.
- iii. Save each screenshot as *perfcpu*, *perfmem* and *perfdisk* respectively.
- iv. Close all applications, observe the performance of the CPU, Memory and Disk
- v. Take a screenshot of each after 30 seconds of observation.
- vi. Save each screenshot as *perfcpu1*, *perfmem1* and *perfdisk1* respectively.
- vii. Open 3 applications, observe the performance of the CPU, Memory and Disk
- viii. Take a screenshot of each after 30 seconds of observation.
- ix. Save each screenshot as *perfcpu2*, *perfmem2* and *perfdisk2* respectively.

Task 6: Manage Input/Output

- i. Use the resource monitor to observe input/output activity
- ii. Document at least 3 processes currently reading from or writing to disk
- iii. Take a screenshot and save as *InputOutput*
- iv. Copy a video (*of about 1 minute*) from 1 location of the hard disk to another
- v. Observe the disk I/O resource monitor while the file is being copied on the disk tab
- vi. Take a screenshot and save as *InputOutput1*
- vii. Document at 3 process activities in the network tab sending and receiving data.
- viii. Download a large video from the internet
- ix. Observe the network activity while Download is in process
- x. Take a screenshot and save as *InputOutput2*

Task 7: Perform disk storage management

- i. Identify the devices and drives available in the computer system. Take a screenshot of the devices and drives and save it as *devdri*
- ii. Explore the properties of each partition, take a screenshot and save it as *prodri*
- iii. Use the shrink tool to create and format a new partition. Name the partition 'NEW STORAGE'. Take a screenshot and save as *NewStorage*
- iv. Use the Run dialog box to clean up temporary files. Take a screenshot and save it as *Tempfiles*

Task 8: Configure users and file permissions

- i. Create a new user account named 'CANDIDATE'

- ii. Lock this account with a password Cdacc@July2025.
- iii. Set file permissions to read only through the GUI
- iv. Take a screenshot and save as '*fileperm*'
- v. Configure password policies; minimum length (6 Characters), compulsory inclusion of numbers and symbols, screenshot the window.
- vi. Take a screenshot and save as '*fileperm1*'