

061206T4CYB

CYBER SECURITY TECHNICIAN LEVEL 6

SEC/OS/CS/CR/07/6/A

Secure Databases

Nov/Dec 2024



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

PRACTICAL ASSESSMENT

INSTRUCTIONS TO CANDIDATE

This assessment requires the candidate to demonstrate competence against unit of competency:
Secure Databases.

1. Time allocated: **3 Hours.**
2. In this assessment, you will be required to perform **two (2)** practical tasks.
3. Write your name, registration code, date and sign in the practical assessment attendance register.
4. You have **10 minutes** to carefully read through the instructions and to collect the tools /resources required for the tasks.
5. The assessor will record your performance at critical points using audio-visual means.

This paper consists of TWO (2) printed pages.

**Candidates should check the question paper to ascertain that all the pages are
printed as indicated and that no questions are missing**

You have been provided with the following resources:

1. A Computer with windows operating system.
2. MySQL Server installation file.
3. GreenSQL installation file.
4. Text Editor.
5. Administrator Privileges
6. Printer
7. Printing papers

INSTRUCTIONS:

As the database administrator for Kwacha Bank Ltd. You are in charge of the database security management and have been tasked to secure the bank's database against threats.

In this assessment, you are required to complete the following tasks:

Task 1: Install MySQL Server and create user accounts

- i. Screen capture and save all steps in this task.
- ii. Install MySQL Server.
- iii. Create a test database.
- iv. Create THREE user accounts with different privilege levels.
- v. Print out all the processes in **Task 1**

Task 2: Install and configure a database firewall.

- i. Screen capture and save all steps in this task.
- ii. Install GreenSQL database firewall.
- iii. Configure the firewall to ONLY allow TWO IP addresses access the database.
- iv. Test database access.
- v. Block ALL DELETE and DROP operations from non admin user.
- vi. Execute the TWO blocked queries to test the operation rules created in **Task 2 (v)**.
- vii. Print out all the processes in **Task 2**.

End.