

**061006T4ICT**

**ICT TECHNICIAN LEVEL 6**

**IT/OS/ICT/CR/7/6**

**MANAGE DATABASE SYSTEMS**

**JULY/ AUGUST 2023**



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

**PRACTICAL ASSESSMENT**

**TIME: 3 HOURS**

**INSTRUCTIONS TO CANDIDATE**

1. In this practical assessment, you are required to perform the following task:  
**TASK 1:** Design a database using MS access  
**TASK 2:** Perform SQL commands using the Students table created in Task 1  
**TASK 3:** Perform the following activities in student database.
2. You have 10 Minutes to read the instructions and check availability of resources.
3. The assessor will record your performance at critical points using audio-visual means.

You have been provided with the following resources

- A computer
- A database software (Ms Access and MySQL)

**Task 1: Design a database using MS access**

**(10 Marks)**

Create a database using Ms Access ( include first name, last name, phone number, D.O.B, course, county of birth, gender, department, enrolment date, entry grade, next of kin, number of units required for enrolment for at least 20 students from your institution) name it as Student table.

**Task 2: Perform SQL commands using the Students table created in Task 1**

**(15 Marks)**

- i. Display all male students.
- ii. Change the phone number studentID 14 to 0112378999
- iii. The management discovered that the next of kin was not necessary to the students hence advised the Database Administrator to do away with it. Display the record which could appear.

**Task 3: Perform the following activities in student database.**

**(25 Marks)**

- i. Display all students in ICT course.
- ii. Display all students Fname in ascending order.
- iii. Display all students sorted by the course column.
- iv. List the number of students in department.
- v. List all students with a NULL value in the “Address” field.
- vi. Display all students who were enrolled in computer science course in 2022