

061006T4ICT

ICT TECHNICIAN LEVEL 6

IT/OS/ICT/CR/12/6

PERFORM SYSTEM ANALYSIS AND DESIGN

JULY/AUGUST 2023



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

PRACTICAL ASSESSMENT

TIME: 3 HOURS

INSTRUCTIONS TO THE CANDIDATE

1. In this practical assessment, you are required to perform **TWO** tasks:
2. The assessor will record your performance at critical points.

You will be provided with the following resources:

- A computer with windows version 10
- Microsoft office 2010

TUV polytechnic needs a simple database structure to handle their requirement for information storage and retrieval. The institution has the following information of their students.

Studentno	Student Name	Major	Course Name	Course Title	Instructor Location	Instructor Name	Grade
06/456	peter	computer	Database Graphics	Com423 Com311	Cst12 Cst13	Ola Dauda	A C
07/567	Audu	stats	Graphics Stat Theor Op Res	Com311 Sta381 Stat345	Cst13 Cst17 Cst13	Dauda John Dauda	A B C
.....							

Task 1: Create a simple database structure for information storage and retrieval (25 Marks)

- a) Identify all the entities captured in the table above
- b) Perform a Normalization process for the above table
- c) Create a new database
- d) Create two tables
 - i) Original table
 - ii) Normalized table
- e) Set your primary key for each table.
- f) Use delete, update and insert command to query the database.
- g) Save the database as SAD in a folder named PROCESS

Task 2: Construct an Entity Relationship ER model (25 Marks)

- a) Use MS Access to construct an ER model for TUV
- b) Save the model as ER in the PROCESS folder
- c) Print the database and ER diagram report.