

061006T4

ICT TECHNICIAN LEVEL 6

IT/OS/ICT/CR/8/6

MANAGE INFORMATION SYSTEM

July/August 2024



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

PRACTICAL ASSESSMENT

4 HOURS

INSTRUCTIONS TO CANDIDATE:

1. In this assessment, you will be required to perform two tasks each with 25 marks.
2. You have Ten minutes to read through the instructions and check availability of resources for the practical.
3. You will be allocated 4 hours to complete the practical tasks.
4. Any problem should be reported to the assessor immediately.

This tool consists of THREE (3) printed pages.

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

You are provided with the following resources;

1. A working desktop install with the following
 - i. Microsoft office tool
 - ii. QuickDBD or any information management system software
 - iii. Internet access.
2. Foolscape

Note: use the provided foolscape for any rough / sketch work.

TASK 1

KG Restaurant allows its customers to order food online. A customer registers using phone number, email address and provides a password. Upon login the customer is to choose which day meal he/she would like to order i.e breakfast, lunch, dinner or super. Each meal has its types of dishes identified by dish number. A customer is allowed to choose multiple dishes from any meal type after which he/she makes her payment and the system sends a copy of the order and payment detail to the email. For the order to be placed a customer must make payment.

Required:

Using a suitable Microsoft office tool or any other information management system perform the following task

- a) Create a graphic representation of the structure of the system of each table including the primary keys and foreign keys of the specified system above.

TASK 2

A company prides itself on having up-to-date information on the processing and current location of each shipped item. Shipped items are the heart of the company's product tracking information system. Shipped items can be characterized by item number (unique), weight, dimensions, insurance amount, destination and final delivery date. Shipped items are received into the system at a single retail centre. Retail centres are characterized by their type, uniqueID, and address. Shipped items make their way to their destination via one or more standard UPS transportation events (i.e., flights, truck deliveries). These transportation events are characterized by a unique scheduleNumber, a type (e.g, flight, truck), and a deliveryRoute.

Required:

Using any of the provided information system design tools Create an Entity Relationship diagram that captures that;

- b) Design the entities with their appropriate attributes
- c) Identify each entity primary key and assign appropriate relationship
- d) Create an ERD with correct flow

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