

061006T4ICT

ICT TECHNICIAN LEVEL 6

IT/OS/ICT/CR/10/6 DEVELOP COMPUTER PROGRAM

MAY 2025



PRACTICAL ASSESSMENT

TIME: 3 Hours

CANDIDATES INSTRUCTIONS

1. In this assessment, you will be required to perform the following tasks:

- a) **Task 1:** Write a C program that helps a traffic police officer decide what action to take based on the **speed of a vehicle**. The program should prompt the police officer to enter the maximum speed.

Rules:

- ✓ If the speed is less than or equal to 40 km/h → Print “Safe driving.”
- ✓ If the speed is more than 40 and up to 60 km/h → Print “Warning: Maintain a lower speed.”
- ✓ If the speed is more than 60 and up to 100 km/h → Print “Fine: KSH5000.”
- ✓ If the speed is above 100 km/h → Print “License Suspended.”

- b) **Task 2:** Create a program for a vending machine that displays the selected drink based on the user’s choice. Use a switch statement.

Available Options:

- ✓ 1 → Tea
- ✓ 2 → Coffee
- ✓ 3 → Juice
- ✓ 4 → Water
- ✓ Any other number → “Invalid selection.”

You will be provided with the following resources

Windows- based Personal Computer with:

- Compilers for C