061906T4TEL

TELECOMMUNICATION ENGINEERING LEVEL 6

ENG/OS/TLE/CR/17/6/A

Install Wifi Network

March/April 2025

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

PRACTICAL ASSESSMENT

Time: 4 HOURS

INSTRUCTIONS TO CANDIDATE:

1. Do not write on the question paper.
2. A separate plain sheet will be provided.
3. Return this paper to assessor at the end of the assessment.
4. The assessor will take pictures and videos as you conduct the practical.

This paper consists of THREE (3) printed pages.

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

1. You are required to perform the following tasks as per the network layout shown in figure 1.

    a) **TASK 1:** Establish internet connection between a switch and a router.

    b) **TASK 2:** Configure the installed Wifi router as follows:

        i)   Set up the SSID as **MYNET@123;**

        ii) Configure the password as **Admin@2024;**

        iii) Set up wireless security setting to use **WPA2.**

    c) **TASK 3**: Establish internet connection between Wifi network and PC.

        i)   Connect a device (PC with NIC) to the Wifi network to ensure there is stable connectivity using SSID and password in TASK 2(i) and (ii);

        ii) Open a browser and send a file to a supervisor/invigilators email;

        iii) Using the browser run a speed test (fast.com) on the Wifi and record the result.

    d) **TASK 4:** Set up access control.

        i)   Block the Access IP address of PC.

        ii) Perform a ping test to confirm task (i).

Figure 1

2. You are provided with the following resources to carry out the tasks:

   a) PC with a wireless NIC /laptop installed with Chrome browser and network drivers.

   b) Internet source (Switch).

   c) Wireless Router.

   d) Cat 6 cable.

   e) Rj45 connectors.

   f) Power extension socket.

   g) Crimping tool.

   h) Ethernet cable tester.

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