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061906T4TEL

TELECOMMUNICATION ENGINEERING LEVEL 6

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

Install Wi-Fi Network

Nov/Dec 2024

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

PRACTICAL ASSESSMENT

easyvet.com

TIME: 4 HOURS

INSTRUCTIONS TO CANDIDATE:

1. Figure 1 shows a network layout of a wireless router and a client computer.



Figure 1

You are supposed to configure the wireless router, which includes applying WPA2 type of security settings and activating DHCP services. You will also configure a wireless PC client. As per the following:

TASK 1: Connect a PC to an Ethernet port on the wireless router.

TASK 2: Configure the Wireless Router

i. Enable the DHCP server and use IP address 192.168.100.1/24 as the internal network. The starting IP address is 192.168.100.100

ii. Enter **192.168.100.1** in the web browser to access the wireless router web interface.

iii. Configure the SSID as **CDACC-Net**.

iv. Configure the wireless security by setting the authentication type to use the **WPA2 Personal** and set the passphrase to **CDACC**

v. Change the administrative password from the default password to **Cdacc@2024**

TASK 3: Configure the PC's wireless NIC to connect to the wireless router

TASK 4: Configure Access Control List to block IP address of PC A

TASK 5: Test to verify that the configurations are successful.

easytvet.com

2. You are provided with the following resources

i. Wireless Router

ii. Cat 6 cable 1 meter long

iii. Rj45 connectors

iv. Power extension socket

v. 1 PC with a wireless NIC (Windows 10 installed) /Laptop installed with Chrome browser and network drivers

vi. Crimping tool

vii. Cable tester

viii. Cat 6 cable Stripping tool

ix. Ethernet cable stripper

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