**Skills Demo 3**

**Guidelines/Instructions to Candidates:**

In this skills demonstration you will connect your smart device to the college network (via Wi-Fi) and demonstrate the steps required to manage mobile devices and systems by installing an app as requested below. You must also demonstrate an ability to configure a wireless network router including the implementation of appropriate security features.

1. Install the App as follows (provide screenshots as evidence for performing each task below):
2. Check your smart devices storage space and provide a screenshot of same.
3. Switch on Wifi on your smart phone
4. Connect your mobile device to the college network via Wi-Fi using correct password.
5. Install the **Coursera: Online courses** app making any checks you deem necessary.
6. Launch the app.
7. Using CISCO Packet Tracer you are required to perform the following tasks
8. Add a smart device and a WRT300N wireless router using CISCO Packet Tracer. Rename each device including your first and surname(eg Ray Murray S1, Ray Murray R1). Provide a screenshot to show the newly named devices. Turn the Wifi off and on again demonstrating how to connect the router and smart device. You must provide a screenshot to show the Wifi switched on/off and the effect of both.
9. Configure the DHCP settings so the Starting IP Address is 192.168.0.50 and provide a screenshot displaying the IP address of the smart device.
10. Assign a password phrase (eg. csncollege2020) to both devices.
11. Increase the security level by setting the encryption setting to TKIP
12. Identify the MAC address of the smart device and configure the relevant router settings to block it from connecting to the router.

**Assessment Criteria:**

Assessment: Evidence of the following must also be provided (eg Microsoft Word document including

text descriptions and screenshots for each task)

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| 1 Connecting to college network via Wifi and Installing an app according to instructions below. Please note you must provide a screen shot as evidence of completing each task. You may need to include a “before” and “after” screenshot as evidence of completing a task. | | |
|  | | |
| a | Provide evidence that there is sufficient storage space on your smart phone. Provide a screenshot detailing the amount of free storage space on your device. | 2 marks |
| b | Switch on Wifi on your smart phone | 2 marks |
| c | Connect your smart phone to the CSN network using the correct password. | 2 marks |
| b | Install the **Coursera: Online courses** app on your smart phone and provide a screenshot as evidence. | 2 marks |
| c | Launch the newly installedapp and provide a screenshot as evidence. | 2 marks |
|  |  |  |
| 2 Configure a Wireless router and connect smart devices using **CISCO Packet Tracer**. Please note you must provide a screen shot as evidence of completing each task. You may need to include a “before” and “after” screenshot as evidence of completing a task. | | |
| a | Add a smart device and a WRT300N wireless router using CISCO Packet Tracer. Rename each device including your first and surname(eg Ray Murray S1, Ray Murray R1). Provide a screenshot to show the newly named devices. Turn the Wifi off and on again demonstrating how to connect the router and smart device. You must provide a screenshot to show the Wifi switched on/off and the effect of both. | 1 mark  1 mark |
| b | Configure the DHCP settings so the Starting IP Address is 192.168.0.50 and provide a screenshot displaying the IP address of the smart device. | 2 marks |
| c | Assign a password phrase (eg. csncollege2020) to your router and demonstrate with screenshots how the smart device must contain the same password phrase to connect both devices. | 2 marks |
| d | Increase the security level by setting the encryption setting to TKIP – include ‘before’ and ‘after’ screen shots. | 2 marks |
| e | Using the MAC address of your smart device, demonstrate how to configure your router to MAC address filter the smart device. Provide screenshots of settings, etc. | 2 marks |

**Evidence of the following must also be provided for all parts of 1 and 2 above:**

• You must provide a Word document with detailed descriptions of settings and changes you made to configurations including screenshots for each task.