

Component Name and Code:	Mobile Technologies (5N0580)
Assessment:	Skills Demo 3
Weighting/Marks:	20%

Teacher:	Ray O'Connor
Course(s):	SD
Issue Date: 19-4-2016	Deadline: 19-4-2016

Guidelines/Instructions to Candidates:

In this skills demonstration you will demonstrate an ability to configure a wireless network router including the implementation of appropriate security features. You will connect to the network (via the wireless router) using a mobile device and demonstrate the steps required to manage mobile devices and systems by installing an app.

A. You are required to make changes to the following settings on a Wireless Routers configuration (use CISCO Packet Tracer):

- i. DHCP
- ii. Encryption (change from default to AES)
- iii. MAC Address Filtering(give example)
- iv. Security features (other than encryption)
- v. Connect a smart device to a wireless router

B. Install the App as follows (ensure you provide screenshots as evidence for performing each task below):

- i. Connect your mobile device using Wifi to the college network
- ii. Install the **RTE News Now** app from the Google Play Store (or other) making any checks you deem necessary before installing
- iii. Launch the app

Assessment: Evidence of the following must also be provided (eg typed in Microsoft Word including screenshots)

A. Connect and Configure a Wireless Router (using CISCO Packet Tracer):

- a. Connect a smart device to a Wireless Router (WRT300N). Rename each device and provide a labeled diagram or screenshot to show device names, etc (2 marks)
- b. Detail how you connected the smart device to the router. Turn the wifi on and off on the smart device to show connection is achieved – include 'before' and 'after' screen shots from your mobile device (2 marks)
- c. Based on router configuration you are required to provide the IP and MAC address for each device (2 marks)
- d. Change and explain each of the settings you configured for parts A (i-iv) above including 'before' and 'after' screen shots for each (4 marks)

B. Install an App:

- a. Connect via Wifi to the college network. Specify the checks you made before installing the app. (include screen shots before and after from your smart device appropriate) (4 marks)
- b. Describe the steps taken to install the app – include screen shots of *each* step from your device (3 marks)
- c. Specify the steps you took to launch the app – include 'before' and 'after' screen shots (3 marks)

Evidence of the following must also be provided for A and B above:

- Typed Word document including screenshots clearly demonstrating and detailing evidence for each part required

Ensure you staple this cover sheet to the front of your printout

2 staples top left corner)

You must present work in class to your teacher

DECLARATION: I _____, confirm that everything I am submitting for assessment is my own original work.

BLOCK CAPITAL LETTERS

Signed: _____

Date: _____