Level 2 install, configure and test ICT networks (7450-235)

Systems and Principles
Assignment guide for Candidates
Assignment B

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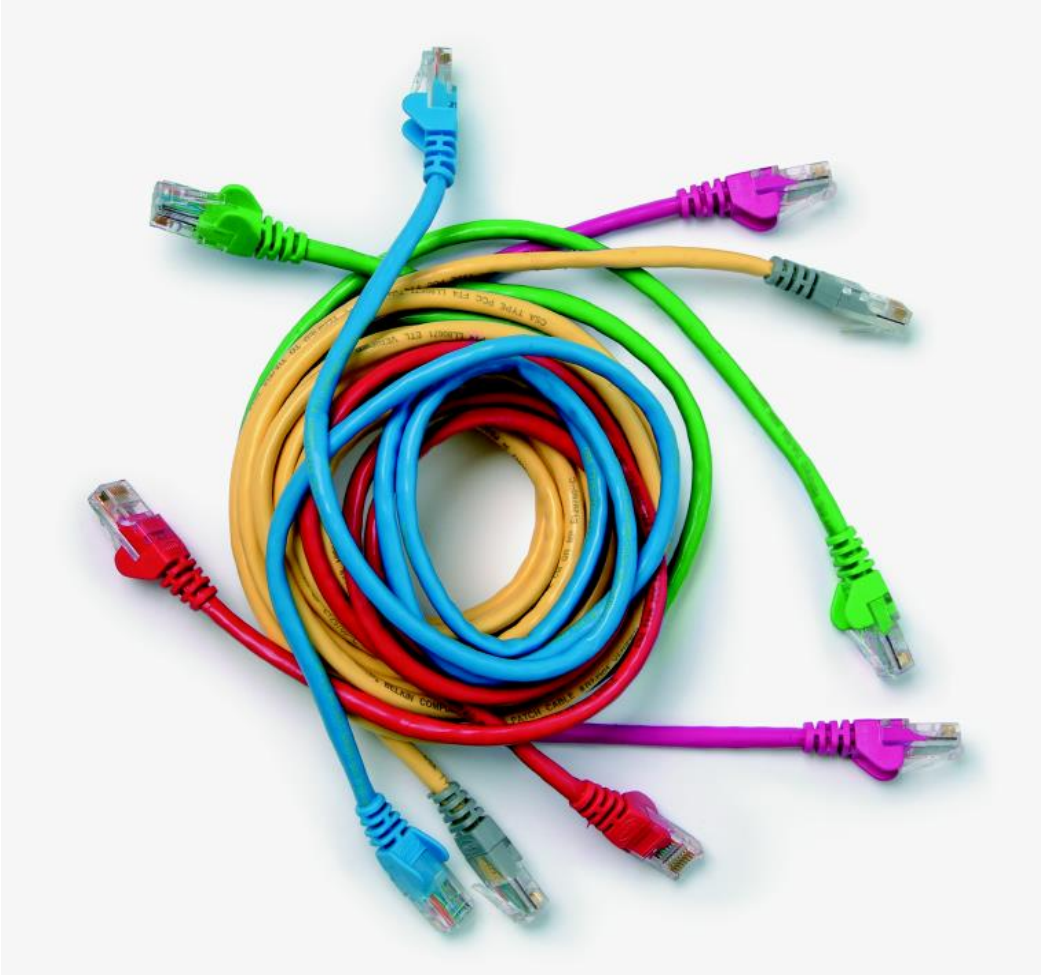

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Level 2 Install, configure and test ICT networks (7540-235) Assignment B

Introduction – Information for Candidates

About this document

This assignment comprises all of the assessment for Level 2 Install, configure and test ICT networks (7540-235).

Health and safety

You are asked to consider the importance of safe working practices at all times.

You are responsible for maintaining the safety of others as well as your own. Anyone behaving in an unsafe fashion will be stopped and a suitable warning given. You will **not** be allowed to continue with an assignment if you compromise any of the Health and Safety requirements. This may seem rather strict but, apart from the potentially unpleasant consequences, you must acquire the habits required for the workplace.

Time allowance

The recommended time allowance for this assignment is **4 hours**.

Level 2 Install, configure and test ICT networks (7540-235)

Candidate instructions

Time allowance: 4 hours

Assignment set up:

This assignment is made up of **two** tasks

- Task A – set up, configure and test an Internet connection
- Task B – manage user accounts on a LAN

Scenario

A company, Magnum Computers, provide installation and technical support services for clients' networks. They receive requests from clients for network installation and maintenance and support services. Technicians are then sent out to a client's site to provide the service required.

Two jobs have been assigned to you.

A Creative Designs, a small company providing high quality graphical design, require access to the facilities on the Internet and they need to be able to send and receive emails with appropriate virus protection facilities. Your manager has asked you to visit the company and set up the Internet connection.

B Fulton Crafts use a LAN, which requires some system administration tasks done. Your manager has asked you to visit the company and perform the tasks required.

Task A

In this task, you are required to install and configure hardware and software to provide a connection to the Internet. You are permitted to use manufacturer's manuals and/or tutor notes.

1 Produce the following planning information for the hardware requirements of the network.

a) The name of the operating system and the software publisher.
b) Cable types and connectors required.
c) Modem or adaptor and speed.

Label this PLANNING.

2 Use appropriate tools and safety/ESD protection equipment to

a) disconnect the computer from the power supply
b) remove the cover
c) install the selected hardware into the computer
d) make any required connections
e) connect any cables required.

3 Ask your Assessor to check the safety of your installation. After approval,

a) refit the cover
b) connect the computer to the power supply, switch it on and boot it up
c) if the selected hardware uses software for set-up, use the supplier's software to configure the hardware.

4 Install and configure software for

a) firewall
b) anti-spyware
c) web browser
d) virus protection
e) email.

Your assessor will supply the details required for the Internet connection and email.

5 Set up the system so that all hidden files can be viewed. Provide a screen print to show this and label it SCREENPRINT1.

6 Test the functionality of the Internet connection and installed software.

a) Connect to the Internet and access the ISP home page. Provide a screen print to show this and label it SCREENPRINT2.
b) Search for a web site selling computer books and download information about books on networks. Save this information as BOOKS.
c) Demonstrate the operation of the virus protection software and take a screen print of the outcome.
d) Access the email software and check for any mail received. Take a screen print of the inbox.
e) Create and send an email to the address supplied by your Assessor with the following text:

Software installed and configured for email. This email is sent to test the operation of the email software. *Your name*

7 Produce a report that

a) describes three services provided by the Internet
b) lists three functions of a communication protocol
c) describes the need for packets in a network.

Label this REPORT.

Task B

In this task, you are required to manage user accounts for the network for Fulton Crafts. The company employs 10 permanent members of staff and has a total workforce of 30. They all work on a 9am-5pm basis. Two new employees, Jayne Holbin and Edwin Marshall, have joined the company and two employees have left. Each employee has a secure home folder and a user account.

You should use the word 'password' whenever you need to set up user passwords during this task.
Note: the use of the word 'password', as an access password, is not normally good security
practice – it is used here for convenience only.

1 Log on to the computer network as administrator.

2 Create **two** new user accounts and secure home folders for the new members of staff.

3 Delete the **two** user accounts and home folders for the staff who have left. Your Assessor will supply the usernames.

4 Provide printouts of the user accounts and label this PRINTOUT3.

5 Log off the network.

6 The manager of Fulton Crafts tells you that they do not have any backup procedures in place for their network. On the answer sheet, state **two** reasons why it is important for backups to be done for a network and how the backup can be achieved.

7 List **three** possible hardware faults and **three** possible software faults.

8 List **three** alternative methods of accessing the Internet and describe **one** additional method of connecting the computer to the Internet access point (telephone point).

9 Hand all paperwork and removable storage media to your Assessor. Ensure that your name is clearly identified on your work.

10 Sign above your name and hand all paperwork to your Assessor.

End of assignment

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