Level 3 Install, configure and integrate networked hardware and software (7266/7267-503/7540-361)

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Assignment guide for Candidates
Assignment B

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Level 3 Install, configure and integrate networked hardware and software (7266/7267-503/7540-361) Assignment B

Introduction – Information for Candidates

About this document

This assignment comprises part of the assessment for Level 3 Install, configure and integrate networked hardware and software (7266/7267-503/7540-361).

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 8 hours.

Level 3 Install, configure and integrate networked hardware and software (7266/7267-503/7540-361)
Candidate instructions

Time allowance: 8 hours

Assignment set up:

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

- Task A – Construct a network from given components
- Task B – Connect a network to another network
- Task C – Write a report

Scenario

A client company currently has two stand-alone workstations in separate offices. There is an increasing requirement for users to share files and facilities and to communicate internally via email. There will also be a requirement to expand the system in the future. You have been asked to convert the current installation to a small client-server system with a shared printer.

Note: You should record details of all installations, configurations, users, tests and results for use in Task C.Produce screen-prints throughout the tasks as evidence where appropriate.

Task A – Construct a network from given components

Your Assessor will provide information to be used in relation to this task.

1 Carry out an audit of the **two** stand-alone machines using auditing software provided by your Assessor. Enter details on the Hardware Audit Report. Use a separate sheet for **each** machine.

2 Prepare the **two** stand-alone machines for networking operations using appropriate hardware and software provided by your Assessor.

3 Complete the details on the System Installation Plan.

4 Connect the network using hardware and cables provided.

5 Test the network connectivity using diagnostic software.

6 Set up the user accounts with appropriate rights and passwords.

7 Configure maintenance routines for access policies and passwords.

8 Create home directories for the users with data files provided by your Assessor.

9 Test to ensure the security of the server including the home directories.

10 Connect the printer to the network and configure the server to manage the printer and the client machine to use the printer.

11 Install the supplied email program on the network.

12 Configure the email program to ensure users on both machines can send and receive messages.

13 Test the email functionality.

14 Test the printing facility from **each** workstation.

15 Install and configure virus protection software on the network.

16 Install and configure a firewall on the network.

This network will now be referred to as Network A.

Task B – Connect a network to another network

1 Select and configure hardware and software necessary to connect Network A, to a similar neighbouring network (Network B) as directed by your Assessor.

2 Ensure the appropriate protocols are installed in each network.

3 Physically connect the two networks together.

4 Test network connectivity using diagnostic software.

5 Configure Network A to allow limited access by nominated users on Network B, including printer access.

6 Configure the email program to allow email communication between all users on both networks.

7 Design and carry out a test regime to test the integrity of the combined networks.

8 Thoroughly test the email communication across both networks.

Task C – Write a report

1 Using the details recorded in the previous tasks, compile a short installation report to include

- details of hardware and software installed
- a logical and physical interconnection diagram
- a list of user profiles – user names and passwords, permissions, etc
- the tests used to confirm integrity and functionality at each stage, including results.

2 For **each** of the above groups of information, explain in the report, why they are recorded and how each might be used in a faultfinding scenario.

When you have finished working:

- Sign each document above your name and label all removable storage media with your name.
- Hand all paperwork and removable storage media to your assessor.

If the assignment is taken over more than one period, all paperwork and removable media must be returned to the test supervisor at the end of each sitting.

End of assignment

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