Level 3 Install, configure and integrate networked hardware and software (7540-361)

Systems and Principles
Assignment guide for Candidates
Assignment B

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Contents

Level 3 Install, configure and integrate networked hardware and software (7540-361)

Assignment B

Level 3 Install, configure and integrate networked hardware and software (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 (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**.

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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   Prior to carrying out the next task perform a risk assessment of your working environment, and record your findings, highlight any issues that do not comply with current legislation.

Make any recommendations to your assessor on changes you would make to the working environment documenting these changes on the Installation records.

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

Also determine suitable configuration options for the intended additional components.

Test the configured computer systems.

Resolve any problems encountered.

Created records of all your installations in this task.

3   Complete the details on the System Installation Plan.

4   Connect and configure the network using hardware and cables provided.

5   Test the network connectivity using diagnostic software and take a screen print of the software used.

6   Set up the user accounts with home directories, appropriate rights and passwords using the data files provided by your assessor.

7   Configure **two** maintenance routines for access policies and passwords.

8   Test to ensure the security of the server including the home directories and take **one** screen print of the server and **each** directory tested.

9   Connect the printer to the network and configure the server to manage the printer and the client machines to use the printer.

10   Check the media given and then Install the supplied email program on the network.

11   Configure and test the email program to ensure that all users on both machines can send and receive messages. Print copies of emails sent and received for all users.

12   Install and configure virus protection software on the network and take a screen print of the configuration.

13   Install and configure a firewall on the network and take a screen print of the configuration.

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 and take a screen print of the software being used.

5   Configure Network A to allow limited access by nominated users on Network B, including printer access and a take screen print identifying **each** user's access.

6   Configure and test the email program to allow email communication between all users on both networks. Print copies of emails sent and received for all users.

7   Design and carry out a test regime to test the correct operation of the **five** user accounts across the combined 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 system functionality at each stage, including results.

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