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

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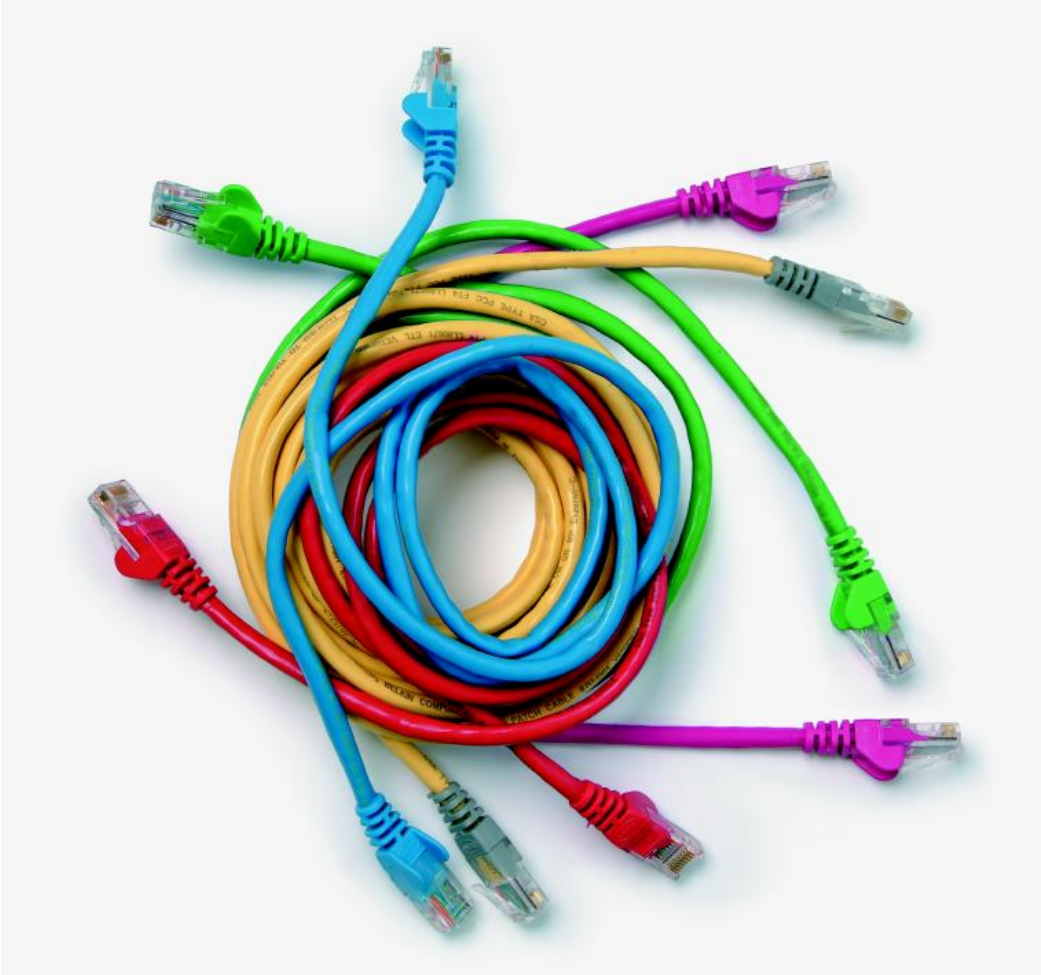
Systems and Principles
Assignment guide for Candidates
Assignment A



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

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 – Survey an installation site and produce an installation plan
- Task B – Install a network
- Task C – Produce an installation report and a brief integration plan

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 there will be a requirement to expand the system in the future. There is also a requirement for the users to communicate internally via email. You have been asked to convert the current installation to a small client-server system with a shared printer.

Your assessor will give details of the area to be surveyed in Task A, which, for practical reasons, may not be the area in which you will set up the system in Task B

Note: You should record, on the forms provided, details of all installations, configurations, users, tests and results for use in Task C.

Task A – Survey an installation site and produce an installation plan

1 Carry out a pre-installation survey of the area designated by your Assessor. Your survey report should include details of:

- a risk assessment highlighting hazards and their associated risks, **both** for the installers during the installation **and** the users after the installation
- **five** practical considerations during installation
- **four** potential problems during installation.

2 Create your own installation plan and schedule for this task.

3 Produce physical and logical network connection diagrams for use during installation. The diagrams should show the following and include other information to enable correct configuration of the network:

- connections
- cable types and approximate lengths
- the relative locations of major system components
- an interconnection table.

Task B – Install a network

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 and Software Audit Report. Use a separate sheet for each machine.

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

3 Complete details on the System Installation Plan.

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

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

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

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

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

9 Install the supplied email program on the network.

10 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.

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

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

Task C – Produce an installation report and a brief integration plan

1 Using the details recorded in Task B, 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 functionality at each stage, including results.

2 Produce an installation plan for the integration of an additional networked device (eg photocopier, scanner, fax machine) into the system including

- preservation of data
- component installation
- component configuration
- testing.

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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