Level 2 Install and configure ICT equipment and operating systems (7540-229)

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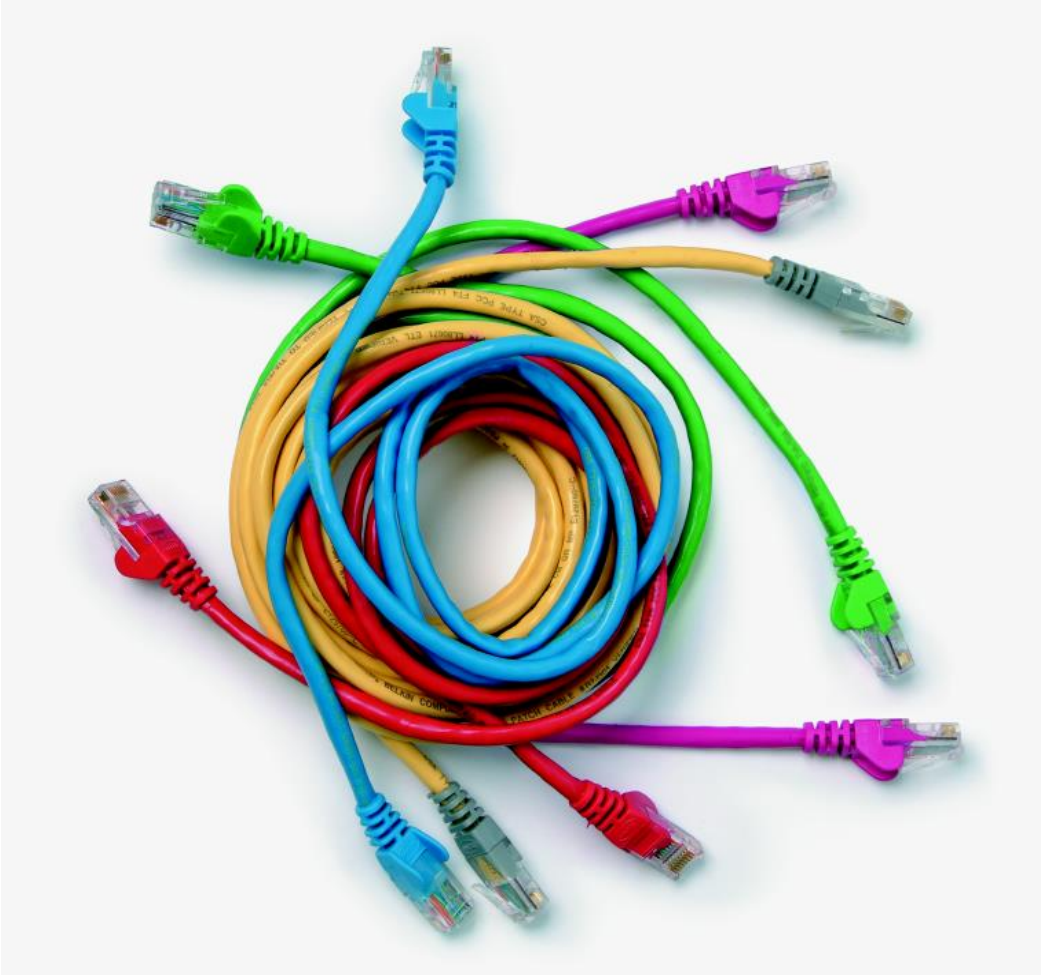
Systems and Principles
Assignment guide for Candidates
Assignment B



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Level 2 Install and configure ICT equipment and operating systems (7540-229) Assignment B

Introduction – Information for Candidates

About this document

This assignment comprises all of the assessment for Level 2 Install and configure ICT equipment and operating systems (7540-229).

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 **3 hours**.

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Candidate Instructions

Time allowance: 3 hours

Assignment set up:

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

- Task A – Inspect, test and prepare two workstations
- Task B – Install the peer-to-peer network
- Task C – Prepare and implement a test plan

Scenario

A customer is in the process of setting up a small business operation in a new office. Initially, the requirement is for two workstations connected in a peer-to-peer network with a shared printer. It will need to be easily expanded to a client-server network consisting of a server, ten workstations and two shared printers. You have been asked to prepare and install two workstations that the customer has bought second hand. The customer also requires a report on problems encountered during the preparation and installation process.

Task A – Inspect, test and prepare two workstations

1 Using the list provided by your Assessor on the System Test Report 1, select **six** tests to investigate the condition of the two workstations. Identify **four** inappropriate tests in the list and clearly mark them.

2 Carry out a safety inspection of the workstations. Connect **each** workstation individually and return all operating system configuration settings to default. Produce at least **one** 'before and after' screen print.

3 Carry out a hardware and software audit of **each** workstation and document the requirements for additional hardware (eg cards) on the Installation Request Form to enable them to be connected in a peer-to-peer network (cables and hubs, lengths, etc).

4 Carry out the tests decided upon in Task A1. Document the results of the tests on the System Test Report 1.

5 Resolve any problems with the hardware and operating systems before proceeding and record the details on the Fault Reporting Log Sheet.

6 Obtain additional hardware that has been identified in Task A3 from the Assessor and install on both workstations. Record the details on the ICT System Installation Log (Hardware).

7 Install and configure the necessary operating system components and device drivers in **each** of the workstations to enable them to work as a peer-to-peer network. Record the details in the ICT System Installation Log (Software).

Task B – Install the peer-to-peer network

1 Connect and configure the **two** workstations as a peer-to-peer network and document the connections on the ICT System Installation Log (Hardware). Document the network configurations on the ICT System Installation Log (Software).

2 From the System Test Report 2, select **four** tests to prove the integrity and correct function of the operating systems and the network.

Task C – Prepare and implement a test plan

1 Carry out the series of tests selected in Task B2 and record the results on System Test Report 2. If during testing you come across problems list them in order of severity on the Answer sheet provided.

2 Install anti-virus and firewall software using the media provided by the Assessor. Produce screen prints of the installed software. Describe why it is important to test installation media for viruses prior to installation on the Answer sheet.

3 Using the details on the Installation Request Form, configure the operating system, anti-virus software and firewall. Produce a screen print showing the settings.

4 Create a directory structure with permissions as indicated on the Installation Request Form. Produce a screen print.

5 Test the directory structure to ensure that the access has been configured as requested. Produce a screen print.

6 Produce a brief report summarising all the problems encountered during the above process. Ensure that severity and priority of problems identified task C1 are recorded.

(Answer the following on the Answer sheet provided.)

7 Identify how the confidentiality and security of the existing files or documents contained on the two workstations could be maintained during your installation.

8 Describe the function of the following components:

- CPU
- Hard Drive
- Monitor
- Keyboard.

9 State how you have complied with relevant legislation during this assignment.

10 State what is meant by:

- technical support
- a patch
- a release
- an infrastructure refresh programme.

11 Describe how to source, gather and collate information, from **two** external sources, about resolutions and fixes to problems you have encountered.

12 Briefly give **two** reasons for restoring default settings to operating system software.

13 Briefly state the purpose of testing hardware and fixing failures before installing operating system software.

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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