Level 2 Testing ICT systems 2 (7540-231)

Systems and Principles
Assignment guide for Candidates
Assignment B

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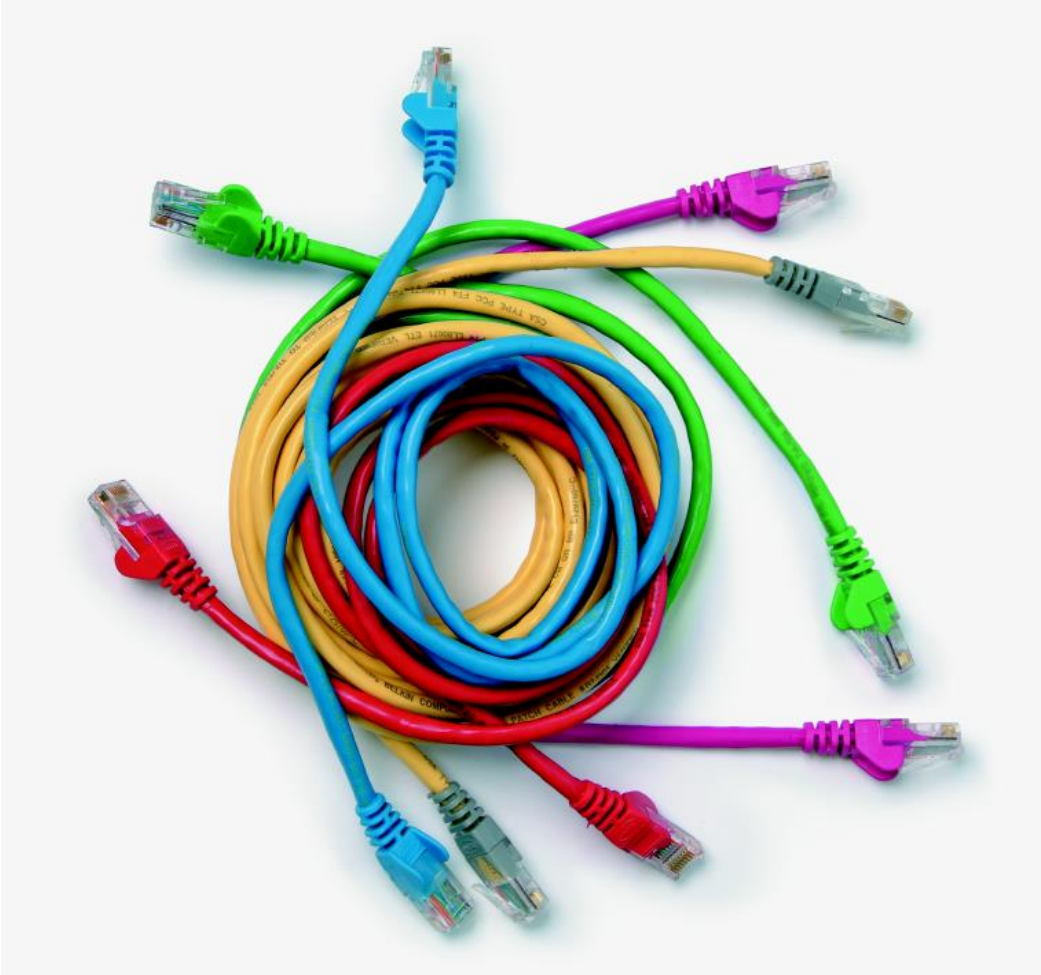

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Level 2 Testing ICT systems 2 (7540-231) Assignment B

Introduction – Information for Candidates

About this document

This assignment comprises all of the assessment for Level 2 Testing ICT systems 2 (7540-231).

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 **2 hours**.

Level 2 Testing ICT systems 2 (7540-231)

Candidate Instructions

Time allowance: 2 hours

Assignment set up:

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

- Task A – Inspect the system
- Task B –Carry out basic functional tests
- Task C – Carry out diagnostic tests

Scenario

You have been asked to test a customer's system to identify any faults and performance problems. You will be given details of the system, diagnostic software and report forms on which to record your findings. You will be required to produce a brief summary of your findings and recommendations.

Task A – Inspect the system

1 Carry out an external and an internal visual inspection of the system.

2 Identify, record and resolve any problems on the System Hardware Test Report.

3 Boot up the system, identify and resolve any further problems.

4 Continue completing the System Hardware Test Report as appropriate. Find the required information and complete the System Information Sheet.

5 Check the details obtained in Task A4 against the system requirements for the diagnostic application. Report the compatibility problems accurately on the Answer Sheet provided.

6 Prepare the system for testing:

- close unnecessary programs including those such as anti-virus programs that may have auto-started on boot-up
- back-up data files (as detailed by the Assessor).

Task B – Carry out basic functional tests

1 Carry out a virus/spyware scan of the system using the installed anti-virus software. Record the results using screen prints.

2 Set up a system monitor, to monitor **four** parameters provided by the Assessor.

3 Using operating system tools, carry out the following tests:

- disk scan including file error and unused disk space checks
- disk fragmentation check
- check for I/O conflicts.

Produce a screen print of each test result.

4 Carry out an additional **four** tests on the system as directed by the Assessor.

5 Produce a Test Results Report for the tests carried out in Tasks B3 and B4.

6 Launch the following applications:

- Word processor
- Spreadsheet
- Text editor
- Presentation.

Produce a screen print showing all **four** applications open simultaneously.

7 Using the **four** documents provided by the Assessor, test the **four** applications in Task B6 by carrying out the following:

- open the document
- modify the document
- print the modified document.

(Please answer Q1 on the Answer Sheet provided)

Q1 State **three** different functions of security software.

Task C – Carry out diagnostic tests

1 Using proprietary diagnostic software supplied by the Assessor, carry out diagnostic tests on the following components:

- CPU
- system board
- memory
- sound
- video
- a peripheral.

Record the results and any problems encountered on the Hardware Diagnostic Test Report.

2 Use self-test facilities/operating system to test printer function and output quality. Retain the test printouts for submission with other assessment documents.

(Please answer Q2 on the Answer Sheet provided)

Q2 State **two** circumstances when you would use **each** of the following:

- network testers
- digital multimeter.

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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