Level 3 Testing ICT systems 3 (7540-321/7630-352)

Systems and Principles
Assignment guide for Candidates
Assignment A

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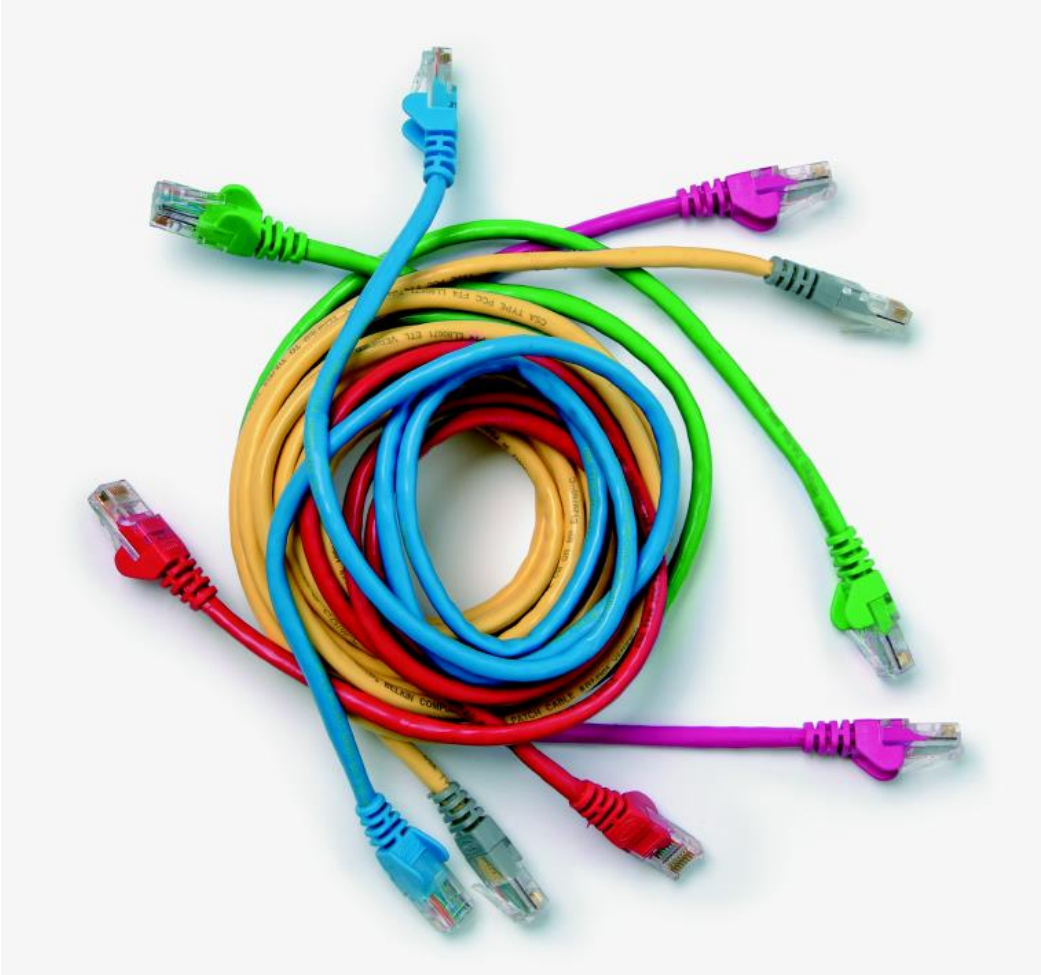

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Level 3 Testing ICT systems 3 (7540-321/7630-352)
Assignment A

Introduction – Information for Candidates

About this document

This assignment comprises all of the assessment for Level 3 Testing ICT systems 3 (7540-321/7630-352).

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 **5 hours**.

Level 3 Testing ICT systems 3 (7540-321/7630-352)

Candidate Instructions

Time allowance: 5 hours

Assignment set up:

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

- Task A – Design a test plan
- Task B – Carry out the test plan
- Task C – Compile a report

Scenario

A customer has expressed general dissatisfaction with their ICT system and has asked for it to be thoroughly tested. The customer has also asked for a comprehensive report on the system condition and performance.

You are required to devise and carry out a suitable test plan, and to produce a report of your findings, including recommendations. Your Assessor will provide you with some information but you will be expected to extract the remaining information from the system and the customer. You will not be expected to dismantle the equipment to extract hardware data.

Task A – Design a test plan

1 Using the available operating system tools and the information provided, carry out a hardware and software audit and record details on the Audit Logs.

2 Using the information gathered in Task A1, identify **six** tests and **six** monitoring operations that could be carried out on the system. Briefly explain the function of each test and each monitoring operation. Record the details on the Operating System Test Report and/ or System Hardware Test Report.

3 (Please use the Answer Sheet provided to complete Task A3.)

List **four** questions you would ask a user in order to gain extra information. Show these questions to your Assessor and obtain answers.

4 Using all the above and other information (eg gathered from manufacturer's manual, website, etc), design a test plan for hardware and software, made up from standard test procedures.

Identify in the comments column any tests that may affect existing data and the measures to be taken to prevent loss or corruption of data.

The test plan must include all **six** tests **and** monitoring operations from Task A2.

5 (Please use the Answer Sheet provided to complete Task A5.)

State **three** reasons why, when devising a test plan, it should be discussed with the customer.

Task B – Carry out the test plan

1 Record the system configuration using screen prints.

2 Record the user settings using screen prints.

3 Carry out a scan for viruses and spyware and record the results using screen prints.

4 Carry out any measures required to prevent loss or corruption of system state.
Take screen print(s).

5 Carry out the planned test schedule, recording the expected and actual results of **each** test.
Record the details on the appropriate Test Reports.

6 Restore the system configuration and user settings to their former state as recorded in Tasks B1 and B2. Record using screen prints.

Task C – Compile a report

1 Using the data collected in Tasks A and B, compile a short written report detailing:

- any faults found during the tests
- recommended repair action and/or action carried out to allow the tests to continue
- actual system performance compared with expected performance
- recommended upgrade/modification options to improve performance.

2 (Please use the Answer Sheet provided to complete Task C2)

Describe the purpose **and** function of the following:

- Network Protocol Analyser
- System and resource monitors.

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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