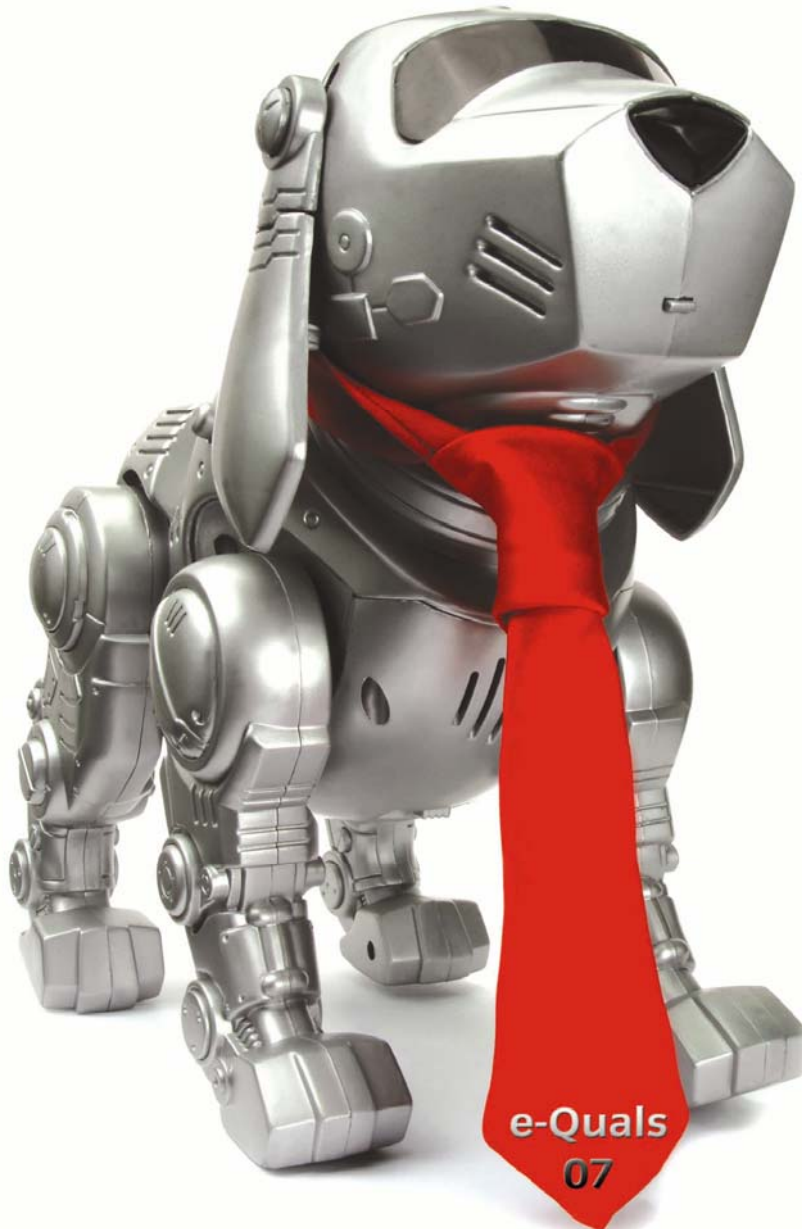


Level 2 ICT Repair centre procedure 2 (7266/7267- 407/7540-233)

e-Quals

Assignment guide for Candidates

Assignment C



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Level 2 ICT Repair centre procedure 2 (7266/7267-407/7540-233) Assignment C

Introduction – Information for Candidates

About this document

This assignment comprises all of the assessment for Level 2 ICT Repair centre procedure 2 (7266/7267-407/7540-233).

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 **4 hours**.

Level 2 ICT Repair centre procedure 2 (7266/7267-407/7540-233)

Candidate instructions

Time allowance: 4 hours

Assignment set up:

This assignment is made up of **four** tasks

- Task A - File set up
- Task B - Document layout
- Task C - Further document layout
- Task D - File update

Scenario

You are employed as an IT technician responsible for the building and testing of re-cycled PCs. You will be given a number of PC components to choose from and are asked to build a system and test it using third party diagnostic software. You are asked to make a record of the components used and the tests performed so that the recipient of the system can be confident of its reliability.

You will be given a base unit casing to work with and a specification for the completed PC system.

Task A

- 1 Select from the components provided by your Assessor, sufficient suitable items to build a PC of the correct specification.

Make a record of the components used such as manufacturer, model number, build number, MAC address, firmware version etc where appropriate.

Note: the hard drive will be pre-loaded with an operating system and other software and will be labelled with details.

- 2 Select the appropriate tools and safety equipment for cleaning, preparing and assembling the components you have selected.
- 3 Ask your Assessor for suitable cleaning materials and set-up information to enable you to clean, connect and configure the PC components. Clean the components as necessary.

Task B

- 1 Using the equipment and tools you have selected, reassemble the PC base unit. Do not refit the cover.
- 2 Ask your Assessor to check the assembly and connections for safety before proceeding further.
- 3 Fit and secure the covers to the base unit.
- 4 Select appropriate cables and connectors. Connect the PC system together.

Task C

- 1 Boot up the PC and carry out basic start up tests to confirm correct assembly. Record the results. Ensure the PC boots an Operating System.
- 2 Select and install suitable software onto the PC to perform the following tests.
 - Diagnostic
 - Stress
- 3 Perform functional tests on the PC. Record the results.
- 4 Using the diagnostic software installed in Task C2, carry out diagnostic tests on the following components.
 - CPU
 - Power supply
 - RAM
 - Hard Drive
 - Sound
 - Graphics

Record or print out the results.

- 5 Set up and carry out a stress test using the software installed in Task C3. Print out or record the results. While you are waiting for the test to complete, answer the questions in Task D.
- 6 When the tests are complete, shut down the PC.

Task D

Q1 Describe the legal requirements relating to the environment.

Q2 State a common hazard associated with testing **each** of the following ICT equipments.

- Laser printer
- Power supply

Q3 List **two** measures that are commonly taken to prevent harm resulting from hazards in a repair environment where IT equipment is tested.

Q4 State **one** common fault found in **one** of the following together with its likely cause.

- Power supply
- Hard drive
- Optical drives
- Main memory
- LCD monitor
- Mouse

Q5 Briefly describe the users of **each** of the following items of test equipment.

- Oscilloscope
- Multi-meter

Q6 Briefly explain why tolerances are given when applying calculations of technical values.

Q7 State a common method of recording information about equipment and systems.

1 Hand all paperwork and removable storage media to your Assessor. Ensure that your name is clearly identified on your work.

2 Sign above your name and hand all paperwork to your Assessor.

End of assignment

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