

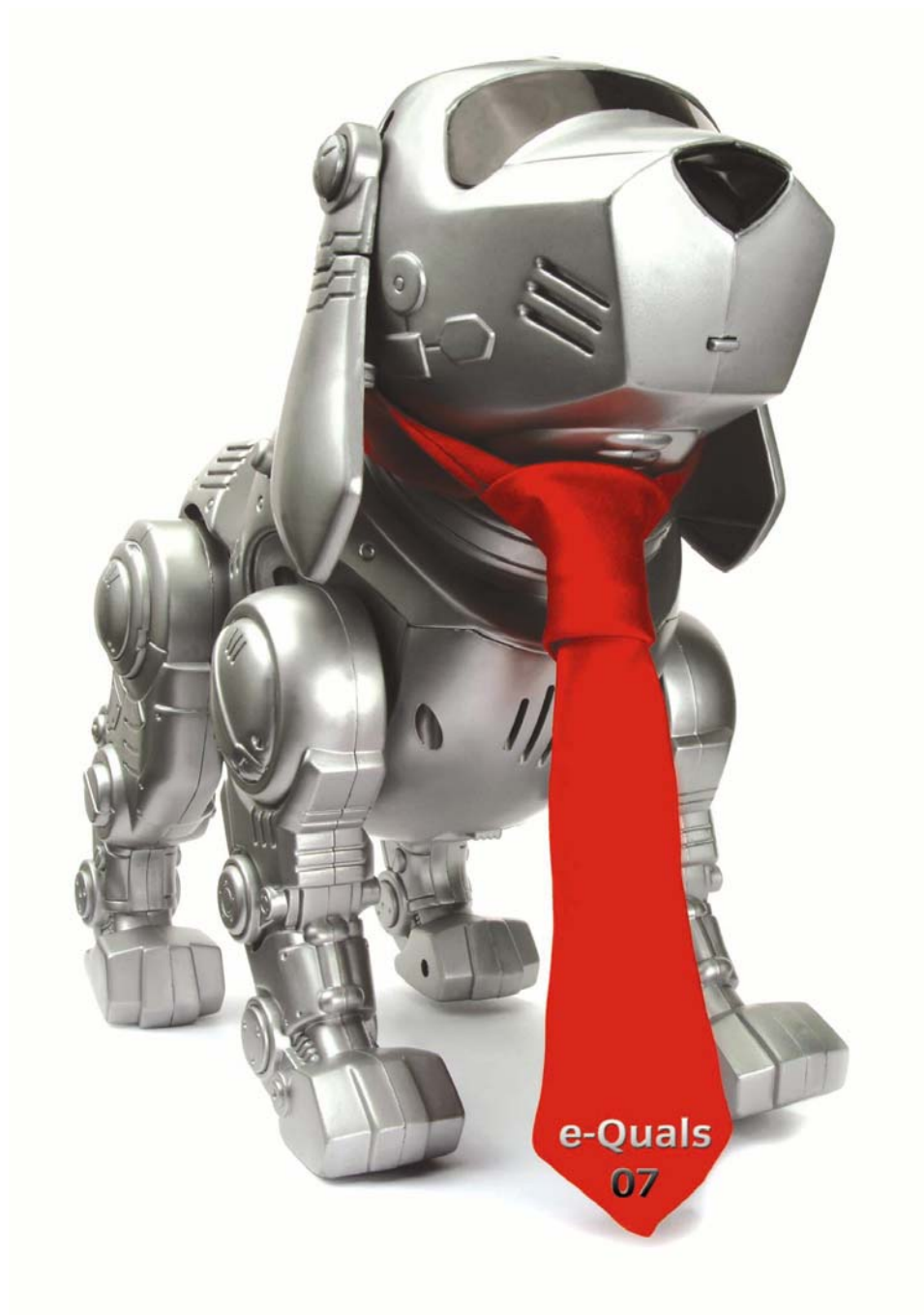
# Level 2 Testing ICT systems 2 (7266/7267-405/7540-231)

**e-Quals**

**Assignment guide for Candidates**

Assignment D

[www.cityandguilds.com/e-quals07](http://www.cityandguilds.com/e-quals07)  
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# Level 2 Testing ICT systems 2 (7266/7267-405/7540-231)

## Assignment D

### Introduction – Information for Candidates

#### About this document

This assignment comprises all of the assessment for Level 2 Testing ICT systems 2 (7266/7267-405/7540-231).

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#### 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**.

# Level 2 Testing ICT systems 2 (7266/7267-405/7540-231)

## Candidate instructions

**Time allowance: 3 hours**

### **Assignment set up:**

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

- Task A – Apply standard test procedures to PC systems and peripherals
- Task B – Interpret test results to identify faulty components and apply simple fixes

### **Scenario**

You are working as an IT support technician in a large organisation. You have been tasked with testing a newly installed wireless network.

Your job is to thoroughly test the network for connectivity and data throughput from one PC through the WAP to a second PC.

You have been told that the network is operational by the installation team but it may not be entirely fault free.

You can use diagnostic tools, provided with your operating system or protocol stack, but you must test across the OSI model. You should also test security on this network.

One of the test procedures must be automated.

You should document your findings in a short report.

## Task A – Apply standard test procedures to PC systems and peripherals

- 1 Identify a range of sources for product information, diagnostic and testing procedures for the equipment you are working with. Include
  - a) help/readme files
  - b) technical websites
  - c) manufacturer manual/website
  - d) local logs/information
  - e) advice from colleagues
  - f) user groups.
  
- 2 Comply with the standard procedures (for both hardware and software) you have found in the product information to test the equipment for correct operation. Include
  - a) network hardware
  - b) wireless
  - c) peer-to-peer
  - d) software (OS and applications)
  - e) network security.
  
- 3 Perform a more complicated test on equipment on the Network Security as directed by your Assessor and record your results.
  
- 4 Perform an automated test routine and record your results.
  
- 5 Produce a short test results report for
  - a) network hardware
  - b) peer-to-peer
  - c) wireless
  - d) software (OS and applications)
  - e) network security.
  
- 6 Record the following information.
  - a) Test results.
  - b) Failed equipment details.
  - c) Recommended corrective action.
  - d) Details of serviceable equipment (service data etc).
  - e) Fix to be applied.

## **Task B – Interpret test results to identify faulty components and apply simple fixes**

- 1 Apply fault fixes on hardware and software according to test results on a peer-to-peer wireless network.
- 2 Retest the system using standard procedures (for both hardware and software).
  - a) Network hardware.
  - b) Wireless.
  - c) Peer-to-peer.
  - d) Software (OS and applications).
  - e) Network security.
- 3 Confirm from test results that the system functions within acceptable limits.
- 4 Hand all paperwork and removable storage media to your Assessor. Ensure that your name is clearly identified on your work.
- 5 Sign above your name and hand all paperwork to your Assessor.

**End of assignment**

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