# Level 1 Dismantle, assemble, install and maintain a desktop computing system (7266/7267/7276-102)

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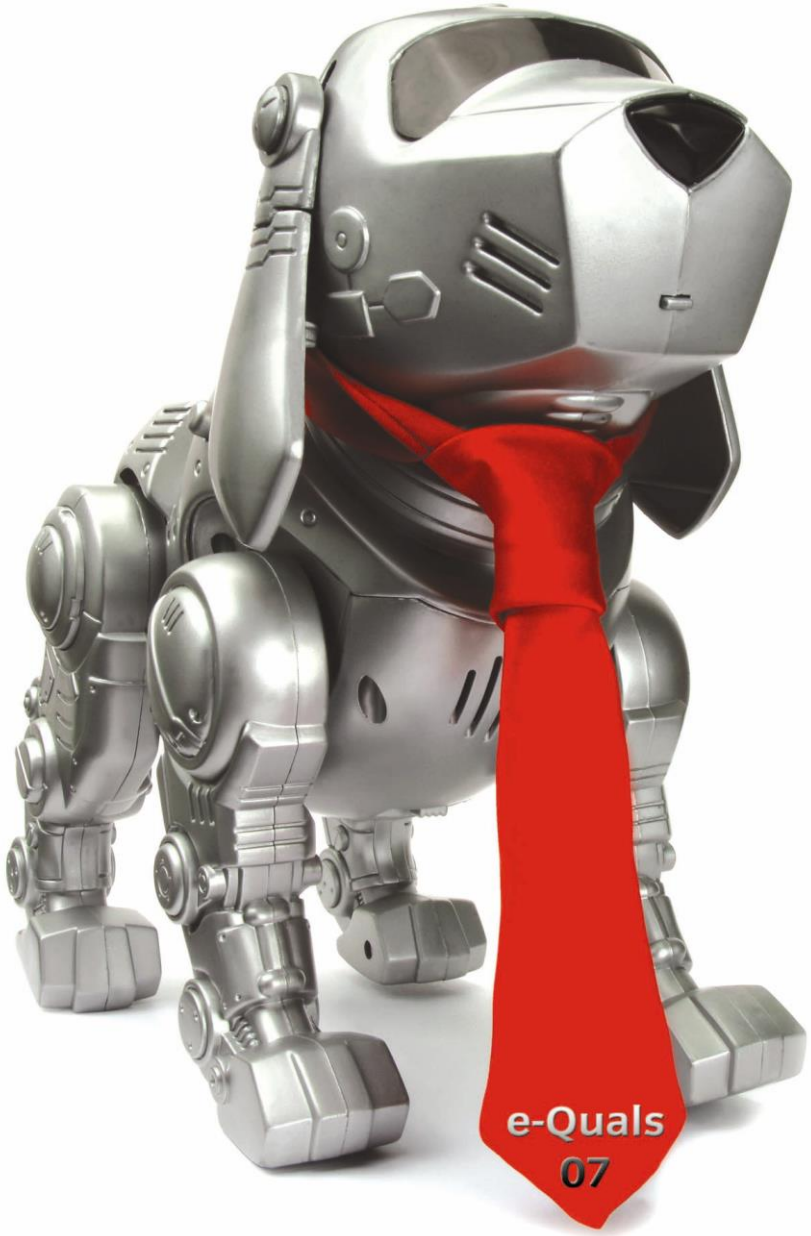
**e-Quals**
**Assignment guide for Candidates**
Assignment A



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# Level 1 Dismantle, assemble, install and maintain a desktop computing system (7266/7267/7276-102) Assignment A

Introduction – Information for Candidates

## About this document

This assignment comprises all of the assessment for Level 1 Dismantle, assemble, install and maintain a desktop computing system (7266/7267/7276-102).

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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 1 Dismantle, assemble, install and maintain a desktop computing system (7266/7267/7276-102)

Candidate instructions

## Time allowance: 3 hours

## Assignment set up:

This assignment is made up of **one** task:

- Task A – Identify parts/components, install new hardware, software and applications, and maintain a Personal Computer (PC)

## Scenario

You are employed as an ICT technician. Your customer has brought a PC to you for some basic upgrades. Before carrying out these upgrades you must first identify what is already present in the system, and then install the requested components. You will also carry out some basic PC maintenance and install anti-virus software to ensure that the PC will run smoothly. Any problems while carrying out this assignment must be recorded on the Fault Reporting Log Sheet provided.

## Task A – Identify parts/components, install new hardware, software and applications, and maintain a Personal Computer (PC)

**Q1 State what a Personal Computer (PC) is.**

1 Identify the equipment supplied and complete the ICT System Log for all accessible parts and peripherals available.

Q2 State what electrostatic discharge is.

2 Disconnect the PC from the power source and, taking ESD precautions, remove the cover of the base unit.

3 Complete the ICT System Log for internal components of the computer.

4 Change the video card to the new one provided and log its details.

5 Replace the CD/DVD drive with the new drive that is provided and log its details.

6 Clean the system board, CPU and PSU fans with compressed air.

7 Ask your Assessor to verify your work, and then put the cover back on.

**8 Clean the mouse, keyboard, and monitor using appropriate equipment and materials.**

9 Reconnect the PC and ask your Assessor's permission to power it up.

Q3 State the purpose of a device driver.

10 Install the device drivers for the new video card and produce evidence of successful installation (eg screen print from device manager).

11 Identify the version of the operating system installed on the PC and log its details.

Q4 State the purpose of testing hardware prior to installing an Operating System.

Q5 State why the minimum system requirements should be checked when installing an Operating System.

Q6 State the function of the BIOS when installing an Operating System.

12 Install the anti-virus software provided.

13 Run an anti-virus system check and produce a screen print showing the results of the virus scan.

Q7 List **four** different types of software that can be used to protect a PC from intrusion.

14 Complete the ICT System Log for other software installed on the PC.

15 Run the hard disk analyse feature to show the current fragmentation status of the drive and produce a screen print showing the results.

16 Run the disk defragmentation utility and produce a screen print showing the results of optimisation.

Q8 List **three** basic principles of computer maintenance.

17 Ensure that the Fault Reporting Log Sheet is fully completed.

18 Ensure that the ICT System Log is fully completed.

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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