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City & Guilds
1 Giltspur Street
London EC1A 9DD
T +44 (0)844 543 0000 (Centres)       www.cityandguilds.com
T +44 (0)844 543 0033 (Learners) learnersupport@cityandguilds.com
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**Unit 304 – Optimise IT system performance Level 3**

Assignment A

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About this document
This assignment comprises all of the assessment for Level 3 Optimise IT system performance (OSP 7574-304).

Health and safety
You are responsible for maintaining the safety of others as well as your own. You are asked to work safely at all times.

You will not be allowed to continue with an assignment if you compromise any of the Health and Safety requirements.

Time allowance
The recommended time allowance for this assignment is two and a half hours.
Time allowance: Two and a half hours

The assignment:

This assignment is made up of three tasks

- Task A - Identify security issues
- Task B - Install software
- Task C - Develop security guidelines

Scenario

You have been employed as an IT technician within a small business. You have been given the task of identifying security issues, developing security and installing suitable software to minimise security risks.

Read all of the instructions carefully and complete the tasks in the order given.

Task A – Identify security issues

1 There are several different security issues that can threaten system performance. Describe and evaluate the following:
   - spam e-mails
   - viruses
   - worms
   - Trojans
   - spyware.

2 There are many different threats to the information stored on IT systems. Describe and evaluate the following:
   - unauthorised access
   - accidental File deletion
   - use of removable storage media
   - unsecured networks
   - default passwords.
3 Choose any four of the following and explain how to minimise security threat to IT systems:

- spam E-mails
- viruses
- worms
- Trojans
- spyware
- unauthorised access
- accidental File deletion
- use of removable storage media
- unsecured networks
- default passwords.

**Task B – Install software**

1 The computer system that you have been given by the assessor contains an e-mail account that has access to the Internet. There is no security software installed on the machine, perform the following:

- select appropriate security software from the selection given
- install appropriate security software packages that will make the system secure
- update all of the installed security software
- evaluate the effectiveness of the installed security software.

**Task C – Develop security guidelines**

1 Develop security guidelines, for the computer system that you used in Task B, in a suitable format. You should consider the following:

- the type of organisation you work for
- the importance of the data you are using
- privacy laws and regulations
- admin procedures and controls that need to be set in place.

The guidelines needs to include:

- backup procedures
- contingency systems
- disaster recovery plans
- how to deal with security breaches.

2 Demonstrate to the assessor your backup procedure.

3 Close any open applications.
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