City & Guilds Level 3 Security for IT Users (ITS 7574-305)

ITQ

Assignment guide for Candidates

Assignment A

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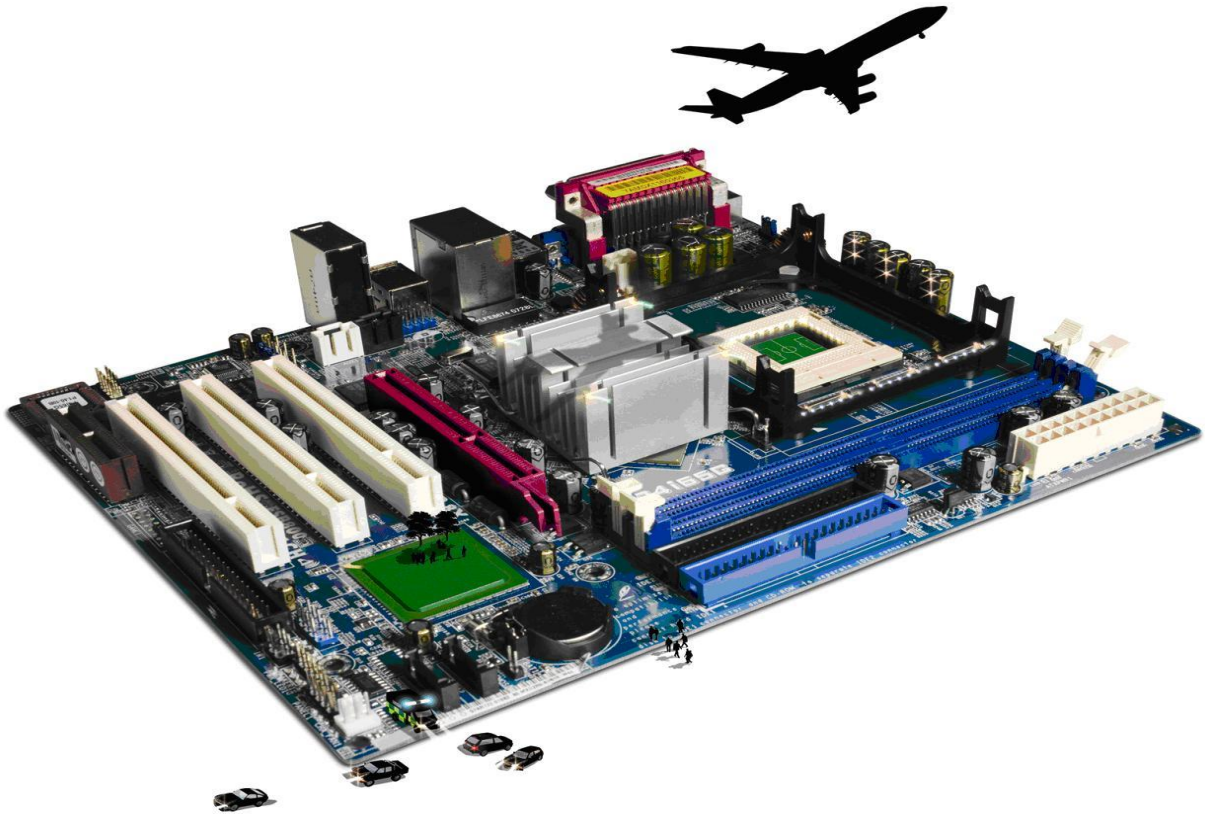

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Level 3 Security for IT Users (ITS 7574-305)
Assignment A
Introduction – Information for Candidates

About this document
This assignment comprises all of the assessment for Level 3 Security for IT Users (ITS 7574-305).

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**.

Level 3 Security for IT users (ITS 7574-305)
Candidate instructions

Time allowance: Two and a half hours

The assignment:

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

- Task A - Evaluate security risks
- Task B - Install software
- Task C - Using security protocols

Scenario

You work as an IT Manager for a medium sized Financial Company which offers advice to private individuals and small businesses on loans, mortgages and insurance.

The Director has concerns regarding the security of the computer system and has asked for advice on procedures that should be put in place to secure the systems and data.

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

Task A – Evaluate security risks

1 There are several different security issues that can threaten system performance. Refer to the scenario, using your **Answers 305 A** document provided by your assessor, describe the threats by the following:

- Spam E-mails
- Viruses
- Worms
- Trojans
- Spyware
- Hackers.

2 Using your **Answers 305 A** document provided by your assessor, evaluate the security issues threatening system performance posed by each of the following:

- Spam E-mails
- Viruses
- Worms
- Trojans
- Spyware
- Hackers.

3 There are many different threats to the information stored on IT systems. Using your **Answers 305 A** document provided by your assessor, describe **each** of the following:

- Unauthorised access
- Accidental File deletion
- Use of removable storage media
- Phishing
- Unsecured networks
- Default passwords.

4 Using your **Answers 305 A** document provided by your assessor, evaluate the threat to information security and integrity from **each** of the following:

- Unauthorised access
- Accidental File deletion
- Use of removable storage media
- Phishing
- Unsecured networks
- Default passwords.

5 Using your **Answers 305 A** document provided by your assessor, explain how to minimise security threats to IT systems from **six** of the following:

- Spam E-mails
- Viruses
- Worms
- Trojans
- Spyware
- Hackers
- Unauthorised access
- Accidental File deletion
- Use of removable storage media
- Phishing
- Unsecured networks
- Default passwords.

Task B – Install software

1 The computer system that you have been given by your 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 (a minimum of **three** software applications).
- Install appropriate security software packages that will make the system secure
- Update **all** of the Installed security software.

2 Using your **Answers 305 A** document provided by your assessor, evaluate the effectiveness of the installed security software.

Task C – Using security protocols

1 Develop security guidelines for the computer system that you used in **Task B**, the guidelines need to include:

- Disaster recovery plans
- How to deal with security breaches
- Contingency systems
- Backup procedures including folders to be backed up.

2 Using the computer system given, create an additional user account.
User name: **305_its**
Password: a suitable secure password using a minimum of **six** characters, alpha numeric and special characters.

Note: record this password in your **Answers 305 A** document provided by your assessor.

3 Using the new user account, demonstrate to your assessor how to begin a system back up as identified in your Security Guidelines.

Note: **Do not** carry out full back up.

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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