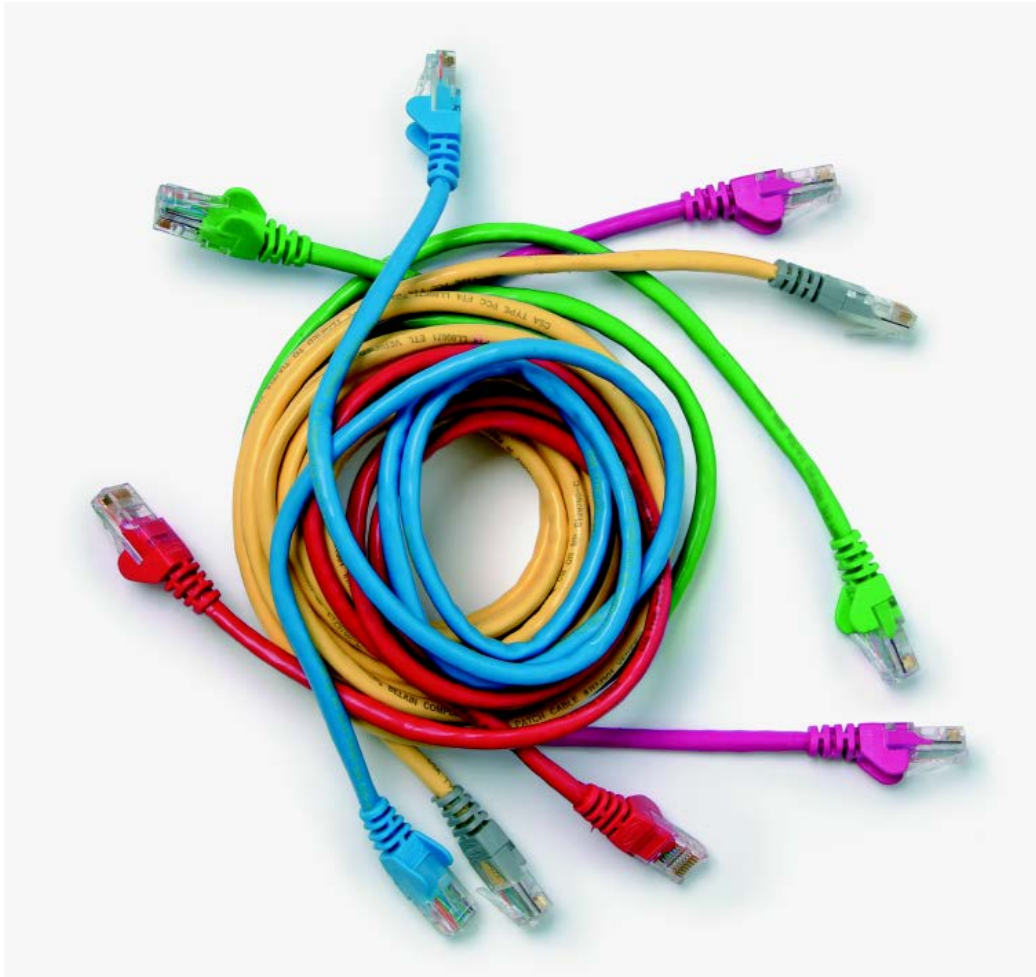


Level 3 Implementing an ICT systems security policy (7540-032/7630-333)

Systems and Principles (QCF) Assignment guide for Candidates Assignment A



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Level 3 Implementing an ICT systems security policy (7540-032/7630-333) Assignment A

Introduction – Information for Candidates

About this document

This assignment comprises all of the assessment for Level 3 Implementing an ICT systems security policy (7540-032/7630-333).

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 **5 hours**.

Level 3 Implementing an ICT systems security policy

(7540-032/7630-333)

Candidate Instructions

Time allowance: 5 hours

Assignment set up:

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

- Task A – Compile a report detailing the issues revealed by the security risks analysis, together with likely impacts to their business
- Task B – Compile a report with recommendations for a hypothetical company, Rapid Data Services Limited for the design and build of their new data centre
- Task C – Configure personal firewall software on a stand-alone computer and provide evidence of configuration against three types of attack

Scenario

Rapid Data Services Limited is a successful company with an excellent reputation in the industry. They provide a range of Internet based services that include remote data backup and data storage facilities, web site hosting and remote server location. Their clients can access many of these services over the Internet to administer their accounts etc. Typical customers include banks and other financial institutions, together with well-known companies in the UK and from around the world. Additionally Rapid Data Services Limited is now the world leader in third party payment collection for e-commerce, handling payments and transactions on behalf of companies that are too small to handle credit and debit card payments on their own. In a typical day, Rapid Data Services Limited processes around 750,000 such transactions for customers in the UK and around the world.

Rapid Data Services Limited started in an old grain warehouse in London on the banks of the Thames, and their only data centre is still located in that building. After securing the lease on the building, Rapid Data Services Limited moved in within the space of 10 days to install the racks and equipment. Little work was done to upgrade the power supplies, environmental systems or the physical security. The company has grown so rapidly it is now seeking premises in London's Docklands for a new purpose built headquarters and data centre. It has asked you to compile a detailed report on the security considerations of the proposed new site and an analysis of potential risks to their business.

Task A – Compile a report detailing the issues revealed by the security risks analysis, together with likely impacts to their business

Using the supplied diagram (Attachment 1) and information from the scenario, analyse the building and current security measures and identify areas that may pose security risks to Rapid Data Services Limited. Make written notes of your findings for use in writing reports.

- 1 Write a report for Rapid Data Services Limited that covers the risks you have identified to their business, the report must include:
 - a) physical security risks
 - b) risks to electronic communications
 - c) other risks to their network, data and associated ICT equipment
 - d) types of data that may be targeted or at risk from hackers and others
 - e) the various motivations of the people who may attempt to attack Rapid Data Services Limited's network or facilities
 - f) the various methods these people may employ to access the data and the ICT networks of Rapid Data Services Limited.

Information should be gathered from all available sources. Information obtained should be listed with source references.

Task B – Compile a report with recommendations for a hypothetical company, Rapid Data Services Limited for the design and build of their new data centre

- 1 Following on from Task A, you are required to provide Rapid Data Services Limited with a proposal of the measures and actions they should take to minimise the security risks you highlighted in your initial report. The proposal should contain:
 - a) recommendations for physical security of key ICT equipment
 - b) recommendations for the security of electronic communications, with an explanation justifying each recommendation
 - c) recommendations for securing key ICT equipment and data from 'attack', both internal and external, with an explanation justifying each recommendation
 - d) a list of **six** key personnel required for a Computer Incident Response Team (CIRT), with a description of each of their likely responsibilities
 - e) likely impacts to the business if the recommendations are not accepted and implemented.

Task C – Configure personal firewall software on a stand-alone computer and provide evidence of configuration against three types of attack

- 1 On a computer supplied for the purpose, configure personal firewall software to prevent **three** security related problems on the computer. You may choose the three items. Produce screen prints to show evidence of the configuration.
- 2 Record on Attachment 2 the elements you have chosen to configure and provide a short explanation for each of your choices.

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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