Level 3 Install, configure and integrate networked hardware and software (7540-361)

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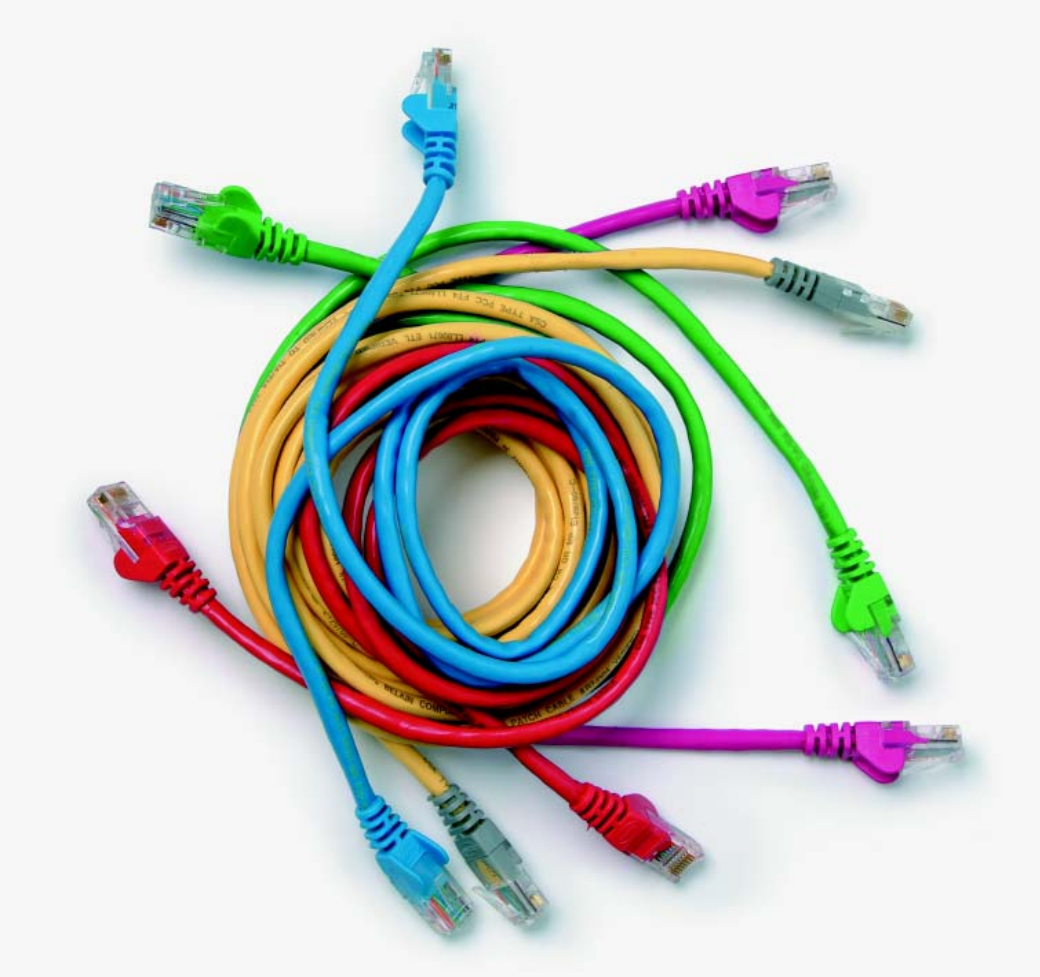
Systems and Principles (QCF)
Assignment guide for Candidates
Assignment C



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Introduction – Information for Candidates

About this document

This assignment comprises all of the assessment for Level 3 Install, configure and integrate networked hardware and software (7540-361).

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**.

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Candidate Instructions

Time allowance: 3 hours

Assignment set up:

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

- Task A – Carry out a risk assessment
- Task B – Configure a workstation to connect to a wireless network
- Task C – Install an Ethernet card
- Task D – Set up permissions for a new group of users

Scenario

You have been asked to install a new PC workstation in a college chemistry teaching laboratory. The room was previously used as an ordinary teaching classroom and was converted to a laboratory some time ago. You have been asked to do a risk assessment before you start and have been told that you can, within reason, choose the time that you do the work. You must, however, fit in with the activities in the room during the installation. Relevant Health and Safety procedures for the room while it is in use will be provided on a separate sheet. A patch panel leading to a network switch has already been installed.

You are expected to use operating system utilities to obtain any information that is required but not provided.

Task A – Carry out a risk assessment

1 Using the information provided by the assessor and in the Record of Risk Assessment document, carry out a risk assessment on the room to identify **four** hazards and associated risks that would affect someone performing an IT installation. You may assume that the most recent actions recorded in the document are still in force.

2 Enter the details of the assessment and your recommendations on the Record of Risk Assessment. In your record make sure to record any issues that **do not** comply with current legislation

Task B – Configure a workstation to connect to a wireless network

In this task, you are asked to connect up a workstation and configure it to connect to a wireless network.

1 Using the work area indicated by the assessor, install the wireless network card into the base unit.

2 Connect up the workstation as instructed by the assessor. If necessary, install and configure the wireless network driver software supplied by the assessor. Before installing any software check its integrity.

3 Create a post-installation test regime of **five** tests for the upgraded workstation, including the wireless network connection. Write down the details of the tests in the System Test Record provided.

4 Carry out the post-installation tests on the system. Enter the results of **each** test in the System Test Record.

5 Correct any faults that you find, resolving any problems that you encounter, and enter the details in the 'Action Taken' column of the System Test Record.

6 Using the data provided by the assessor, use the operating system networking utility to set up and connect the workstation to the wireless network. Ensure the correct protocol(s) are installed.

7 Record all wireless networking configuration settings including MAC addresses, IP addresses and encryption keys on the System Installation Record.

Task C – Install an Ethernet card

Here you are asked to enhance the connectivity by installing an Ethernet card.

1 Install the Ethernet card provided by the assessor into the base unit, checking that the new card is compatible with the existing system.

2 Re-assemble the base unit and connect up the workstation. Connect the workstation to the network.

3 Boot up the workstation, disabling the wireless connection and connect to the network via Ethernet only.

4 Make a record of all Ethernet networking configuration settings including MAC addresses and IP addresses.

5 Repeat the tests you devised in Task B3 and record the results in the System Test Record..

Task D – Set up permissions for a new group of users

Here you are asked to set up permissions for a new group of users called 'Chemistry'.

1 Using the details provided by the assessor, set up a new group of users called 'Chemistry'. The **four** users in the group should be called 'Chemistry 1', Chemistry 2', etc. **Each** user should be given a suitable password and access and different permissions applied to each user.

2 Test the group settings to verify that each individual has the correct access.

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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