Level 3 Web Development

(7540-044)

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

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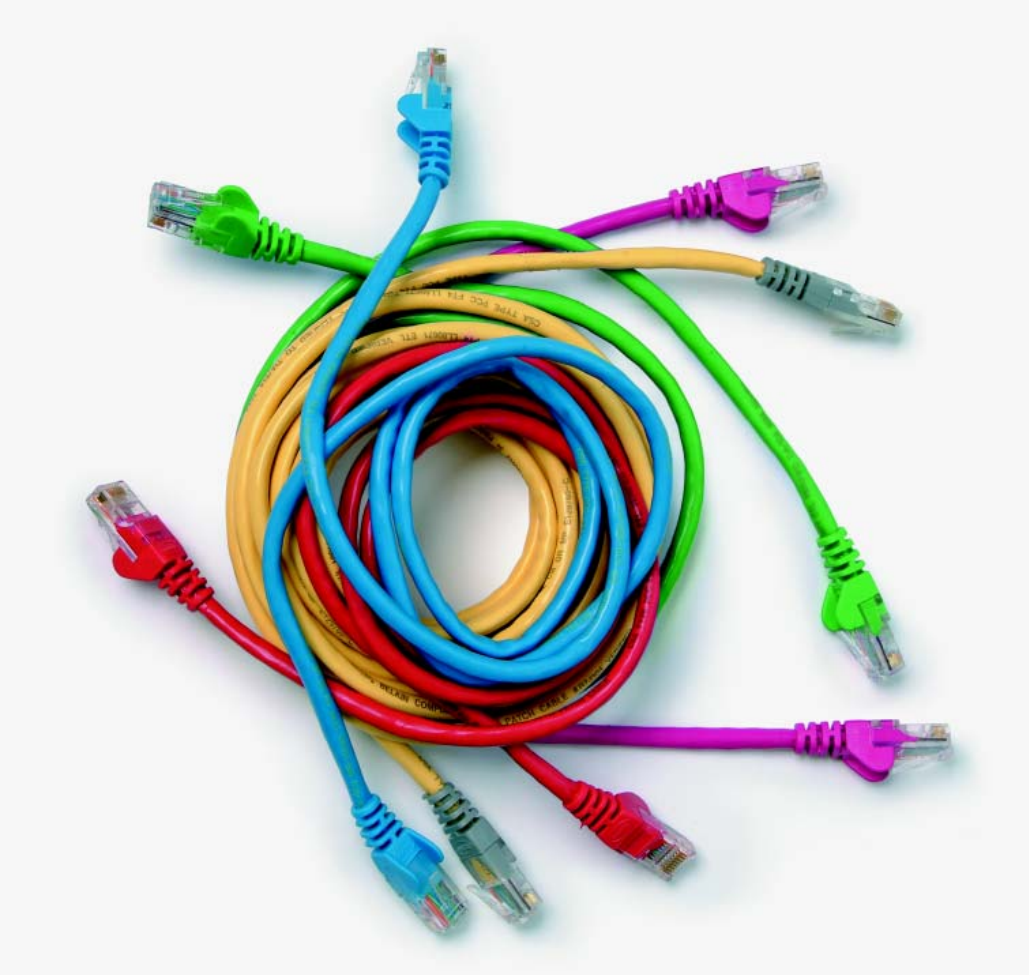

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Level 3 Web Development (7540-044) Assignment B

Introduction – Information for Candidates

About this document

This assignment comprises all of the assessment for Level 3 Web Development (7540-044).

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 **4 hours**.

Level 3 Web Development (7540-044)

Candidate Instructions

Time allowance: 4 hours

Assignment set up:

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

- Task A – Design a five page website
- Task B – Build a functioning five page website
- Task C – Test a functioning five page website
- Task D – Knowledge

Note: Task D requires written answers to a number of questions, please allow sufficient time to complete this task within the assignment.

Scenario

A local IT company has recently been set up in your home town which specialises in building high specification computers for gamers. They also sell computer games.

This company has asked if you could build a website to advertise their products and the top 10 computer games on the market at the moment.

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

Task A – Design a five page website

1 Prior to designing your website it is important that you understand exactly what is required of the website. Firstly you will need to interview the owner of the computer shop to gain the following information (the assessor will act as the owner):

- the aim and content of the website
- any user requirements
- timescales for completing the website

Once you have this information you will need to produce a short plan that outlines the details you have learned.

2 The computer company has initially asked you to design a **five** page website that advertises the products and the top 10 computer games. The designs need to show the following:

- layout of **each** page
- a navigation diagram/storyboard
- the format of content including CSS
- any interactive features
- shopping cart
- images
- any animation

The plans can either be hand drawn or drawn using ICT.

Task B – Build a functioning five page website

1 Using the plans created in task A, build the functioning **five** page website that advertises the products and shows the top 10 computer games.

Ensure your finished website includes the following:

- **five** functioning pages
- images of products and **all** of the games
- navigation between each page
- **two** interactive features
- a functioning shopping cart
- **one** animation.

Task C – Test a functioning five page website

1 Now that your website is complete ask the assessor to observe you whilst you complete the following tests:

- functionality testing, open your website in **two** different web browsers
- test your navigation, demonstrating the functionality of **each** link
- test your interactive features.

Task D – Knowledge

Please use the Answer Sheet provided to complete Task D.

1 Describe **three** hardware and **three** software components that enable access to the web.

2 Explain the role of the following protocols:

- TCP/IP including IPv6
- HTTP
- SMTP.

3 Explain the role of the following:

- Internet Service Provider
- Web hosting service
- Domain name registrar.

4 Identify and briefly describe **four** types of web functionality.

5 Explain the use of **two** different Mark-Up languages.

6 Explain the use and functionality of:

- Web runtime environments
- Web application programming languages
- Databases including SQL
- PHP.

7 Identify **one** typical stack combination that can be used for web development.

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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