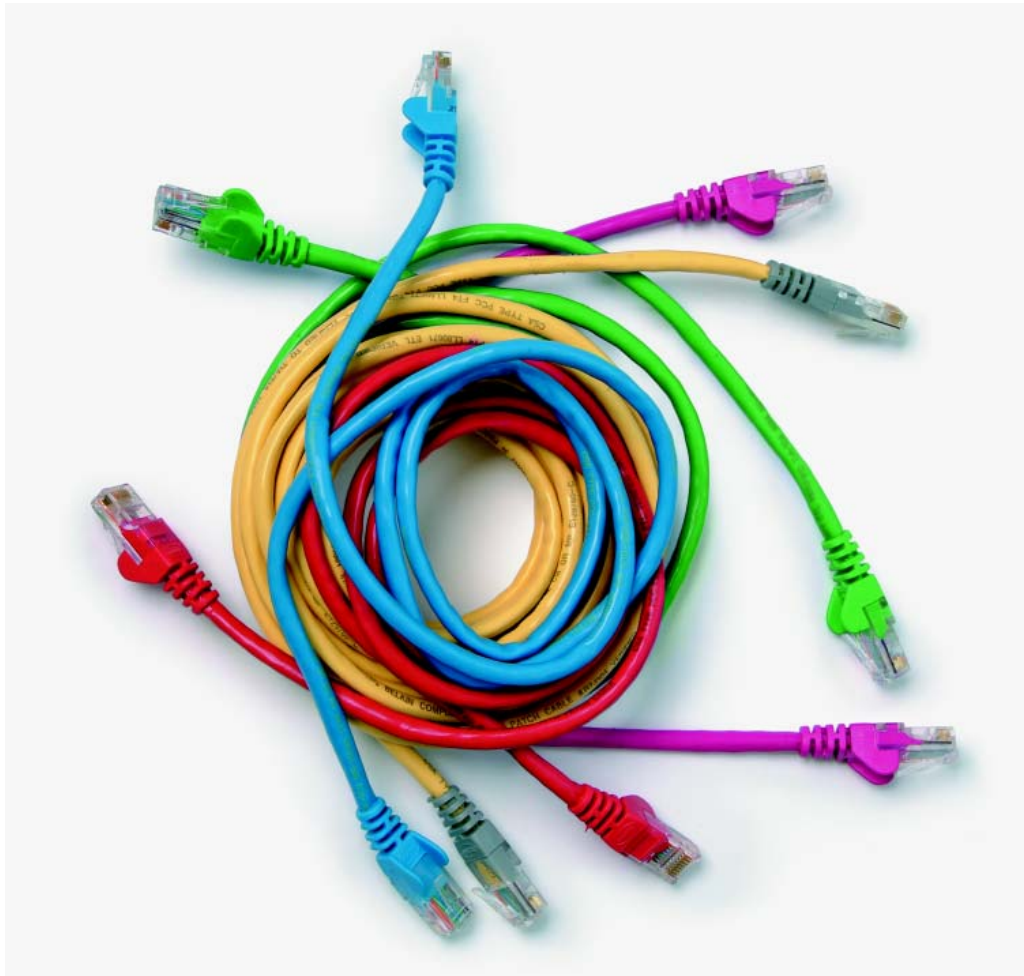


Level 3 Web development (7540-044)

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

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City & Guilds

1 Giltspur Street

London EC1A 9DD

T +44 (0)844 543 0000 (Centres)

T +44 (0)844 543 0033 (Learners)

F +44 (0)20 7294 2400

www.cityandguilds.com

learnersupport@cityandguilds.com

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Level 3 Web development (7540-044) Assignment A

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

As a college student on an IT course with a strong interest in website creation, you have been given the opportunity to demonstrate your skills and knowledge.

You are asked to design a visitor website for a town or city of your choice. The website should provide information on local attractions, cultural events, sporting facilities, buildings of distinction etc.

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. Firstly you need to interview the head of marketing for your chosen Town or City (the Assessor), you will need to gain the following information from the interview:
 - 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 head of marketing has asked you to design a **five** page website that advertises their Town or City to tourists. The designs need to show the following:
 - layout of each page
 - a navigation diagram/storyboard
 - the format of content including CSS
 - any interactive features
 - an email link for enquiries
 - images
 - any animation.

The plans can either be hand drawn or drawn using ICT 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 a functional **five** page website that advertises the Town or City that you have chosen.

Ensure your finished website includes the following:

- **five** functional pages
- any images
- navigation between each page
- **two** interactive features
- an email link for enquiries
- **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
 - Domain name registrar
 - Web hosting service.
- 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

Published by City & Guilds

1 Giltspur Street

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EC1A 9DD

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F +44 (0)20 7294 2400

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