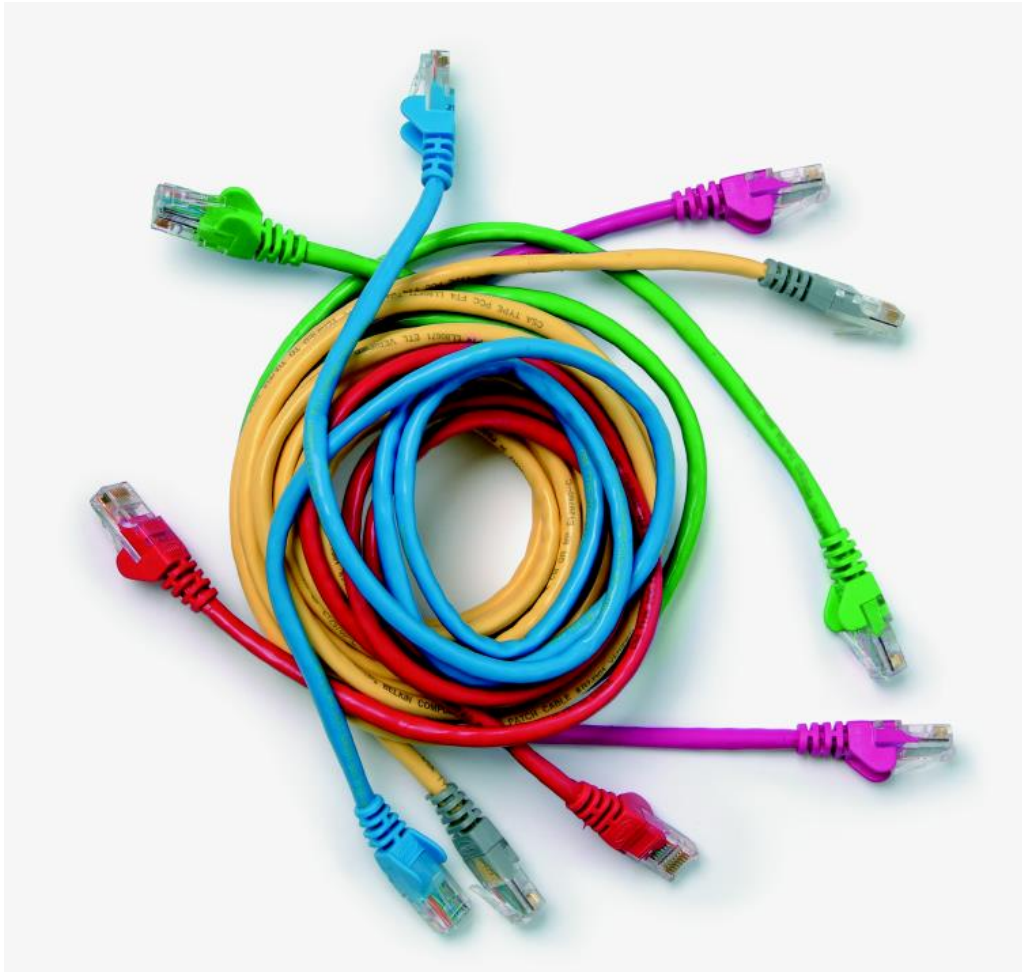


Level 3 Web fundamentals (7540-044)

Systems and Principles Assignment guide for Candidates Assignment C



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Level 3 Web fundamentals (7540-044)

Assignment C

Introduction – Information for Candidates

About this document

This assignment comprises all of the assessment for Level 1/2/3 Unit title (0000-[00]).

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**.

Level 3 Web fundamentals (7540-044)

Candidate Instructions

Time allowance: 3 hours

Assignment set up:

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

- Task A – Design
- Task B – Build
- Task C – Test
- Task D – Knowledge

Scenario

You have just begun working for Tablet PCs UK INC; this is a new company to the market place. They have employed you as a web designer. Their aim is to advertise, and sell Tablet PCs to students to aid them either at college or university. They have asked you to design and build their website. You will receive the content of the website from the Assessor.

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

Task A – Design

1 Prior to designing your website it is important that you understand exactly what is required of the website. Firstly you need to interview the head of marketing for Tablet PCs UK INC (the Assessor), you will need to gain the following information from the interview:

- The aim of the website (both client and user)
- Any user requirements
- Timescales for completing the website.

Once you have this information you will need to produce a short report that outlines the details you have learned, including an implementation plan.

2 Tablet PCs UK INC have initially asked you to design a **five** page website that advertises and sells their range of Tablet PCs. The designs need to include the following:

- Layout of each page
- A navigation diagram
- The format of content including CSS
- Any interactive features
- Shopping cart
- Images
- Any animation

The plans can either be hand drawn or produced using ICT

Task B – Build

- 1 Following the plans created in Task A, build the five page website that advertises and sells the range of Tablet PCs.

Ensure your finished website includes the following:

- **Five** pages
- Images of the products
- Navigation between **all** pages
- **Two** different interactive features, including a pop-up image
- A shopping cart
- **One** animation.

Task C – Test

- 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
- Demonstrate your navigation ensuring **each** link works as per the design
- Demonstrate your interactive features

Task D – Knowledge

Please use the Answer Sheet provided to complete Task D.

- 1 Describe at least **five** hardware and **two** software components that enable access to the web and enable website production.
- 2 Explain the role of the following protocols
 - TCP/IP including IPv6
 - HTTP
 - SMTP.
- 3 Explain the role of the following:
 - Internet service providers
 - Web hosting services
 - Domain name registrars.
- 4 Identify and 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

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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