Level 2 Web fundamentals (7540-014)

Systems and Principles
Assignment guide for Candidates

Assignment B

(This assignment can be used as evidence of achievement of 7513-219)

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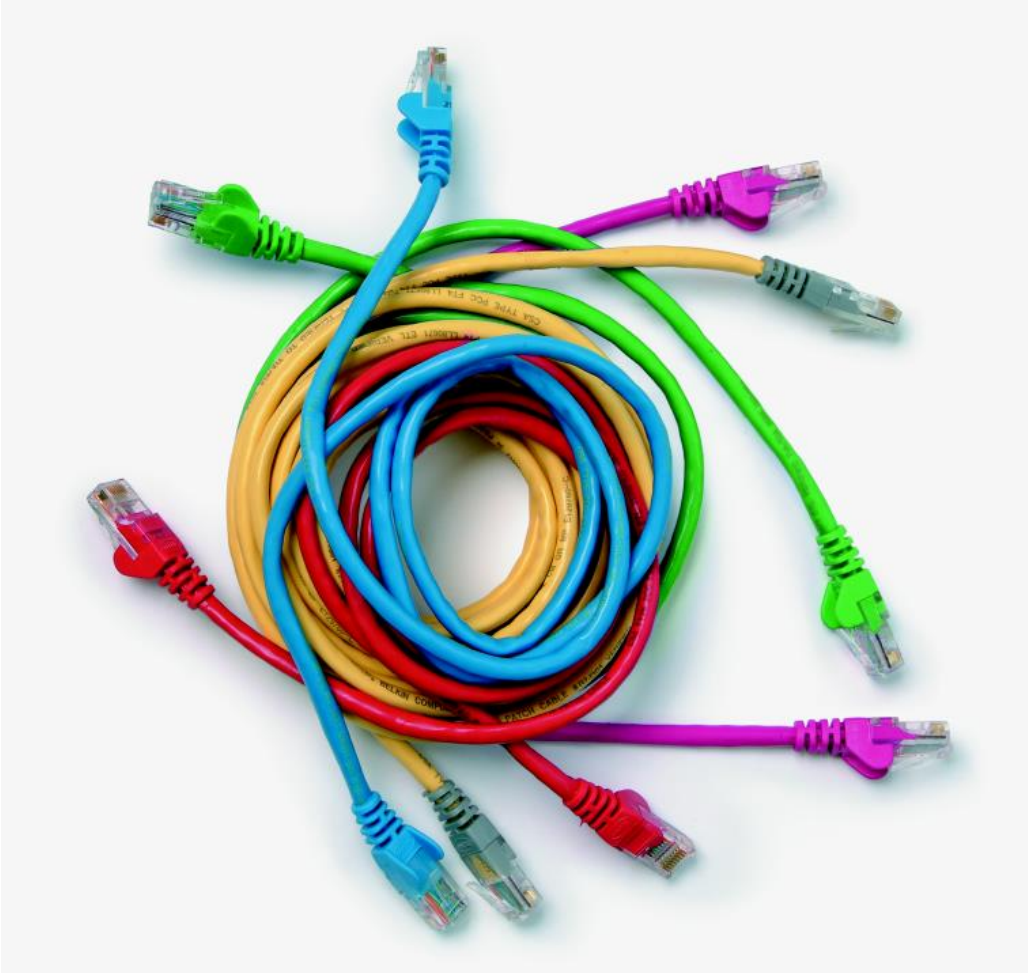

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Level 2 Web fundamentals (7540-014) Assignment B

Introduction – Information for Candidates

About this document

This assignment comprises all of the assessment for Level 2 Web fundamentals (7540-014).

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 2 Web fundamentals (7540-014)

Candidate Instructions

Time allowance: 3 hours

Assignment set up:

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

- Task A – Design a functioning three page website
- Task B – Build a functioning three page website
- Task C – Test a functioning three 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

Meteor Personal Computing is a new computer repair centre that has just opened in your home town, they have asked if you could design and build their website as part of your studies. Meteor repair, build and sell home PCs, they also supply and install operating systems. In order to test your website, you should input sample prices and services.

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

Task A – Design a functioning three page website

1 Meteor Personal Computing have initially asked you to design a three page website that advertises their range of services and products. The design needs to include the following:

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

The plans can either be hand drawn or drawn using ICT

Task B – Build a functioning three page website

1 Using the plans created in task A, build the three page website that describes the services and products of Meteor.

Ensue your finished website includes the following

- **three** pages
- all images of the products with descriptions
- description of services provided
- full navigation between **each** page
- **two** interactive features
- a shopping cart
- **one** animation, if required.

Task C – Test a functioning three 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 to ensure **each** link works as described in your design
- test your interactive features
- check that content matches design.

Task D – Knowledge

Please use the answer sheet provided to complete task D

1 List **four** hardware and/or software components that enable access to the web.

2 State the role of the following protocols:

- TCP/IP
- HTTP
- SMTP.

3 State the role of the following:

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

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

5 Identify and briefly state the purpose of **two** Mark-Up languages.

6 Identify the roles of the following in building websites and/or web applications:

- Web runtime environments
- Web application programming languages
- Databases.

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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