Level 3 Designing and creating advanced websites (7540-355)

Systems and Principles
Assignment guide for Candidates
Assignment B

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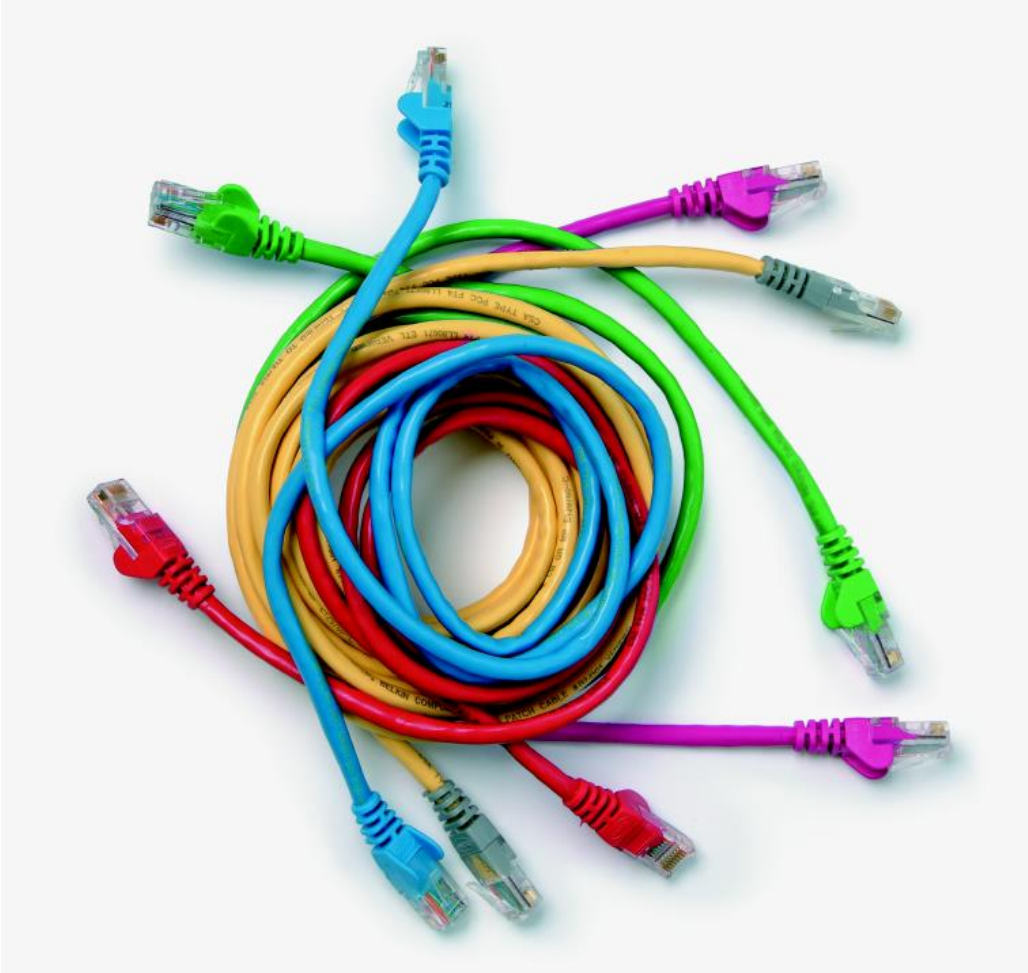

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Level 3 Designing and creating advanced websites (7540-355) Assignment B

Introduction – Information for Candidates

About this document

This assignment comprises all of the assessment for Level 3 Designing and creating advanced websites (7540-355).

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 **3.5 hours**.

Level 3 Designing and creating advanced websites (7540-355)

Candidate Instructions

Time allowance: 3.5 hours

Assignment set up:

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

- Task A – Prepare and design a five page website
- Task B – Creation and publication of a five page website
- Task C – Test and maintain a website
- Task D – Knowledge

Scenario

You have just completed your advanced IT apprenticeship, and your college has been approached by the Tourist Information Board for help in the design and creation of a website advertising the town or city where the college is situated. The website needs to have some advanced features that will demonstrate the range of skills that you have learnt during your time on the programme.

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

Task A – Prepare and design a five page website

1 Prior to designing your website it is important that you understand exactly what is required. Firstly you will need to interview the assessor to gain the following information:

- A statement of requirements.
- The aim and purpose of the website.
- Timescales for completing the website.
- Identify any constraints/limitations.

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

2 You have initially been asked to design a **five** page website that that advertises the town or city:

- Layout of each page, in a frame based **or** non-frame based layout (**both** layouts must be included in the design).
- JavaScript that will be incorporated.
- A Java Applet that needs to be included.
- The database interface that needs to be incorporated e.g. that gives the opening times of local amenities.
- Images and their sources.
- An animated GIF as a logo for the course.
- An Image used as a link.
- A form to collect the details of anyone interested in visiting the area.

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

Task B – Creation and publication of a five page website

1 Following your designs created in Task A, build a **five** page website that is compatible with a range of browsers which advertises the town or city.

Ensure your finished website includes the following:

- **five** pages
- JavaScript
- a Java Applet
- interaction with a database
- images with some transparency
- **one** image to be used as a link
- **one** animated GIF logo
- a form to collect information from people interested in visiting the area.

Once completed publish the site to either the Internet or an Intranet.

Task C – Test and maintain a website

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

- upload some fresh content to the site that modifies the description of one of the amenities covered in your site
- test your navigation ensuring each link works
- test the interactive features
- state (on the Answer Sheet provided) how the website meets the statement of requirements.

Task D – Knowledge

Please use the Answer Sheet provided to complete Task D.

1 Describe how VRML/X3D and DHTML can be used to enhance websites.

2 Explain the purpose of XML.

3 Outline the different uses of **two** different scripting languages.

4 Briefly explain how a scripting language could be used to create an interface with a Database on a website.

5 Explain why it is important for a website to work in multiple browsers.

6 Describe the advantages and disadvantages of a frame based interface.

7 Describe the terms quality, timeliness and accuracy when applied to data collected from a website.

8 Explain **three** factors that affect the dimensions of a button.

9 Describe what is meant by the term anti-aliasing.

10 Create appropriate plans for the effective periodic maintenance and updating of your website, including the file names and paths of **each** file on **each** page of your site.

11 Identify **four** potential future enhancements to your website.

12 Describe the importance of the documentation for a website.

13 Describe **four** different laws/guidelines that affect the day-to-day use of IT regarding content.

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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