



Candidate Instructions

Assignment - 309 Version 1.1

Web site Design - Level 3

Assignment 7262-23-309

Web site Design – Level 3

Candidates are advised to read all instructions carefully before starting work and to check with your assessor, if necessary, to ensure that you have fully understood what is required. You will have access to a computer for this assignment.

You must, at all times, observe all relevant Health and Safety precautions.

Time allowed 8 hours (3 hours each for Tasks A and C, and 2 hours for Task B)

Introduction

A brief scenario is provided for this assignment, which is broken down into three tasks.

Task A requires candidates to create a Terms of Reference.

Task B requires candidates to Design Graphics Resources

Task C requires candidates to create Cascading Style Sheets.

Scenario

You are currently employed as a consultant web site designer to a small training organisation. You have been tasked with the creation of a small web site to provide information, about a series of courses your training organisation currently has on offer.

There is a requirement for:

- a Cascading Style Sheet to be implemented across all pages;
- a database is to be integrated into the site providing information in response to a form based query;
- rollover buttons are to be used for navigation and enhanced visual effect; and an e-mail based feedback form used to collect queries from site users.

Your Assessor will supply you with a database in an appropriate format for linking to a web site and which contains the following data:

Course name	Course code	Max no.	No. enrolled
Basic IT	BIT01	30	18
Web Page Design L2	WEB02	20	15
Web Page Design L3	WEB03	16	9

Task A - Design

Create a Terms of Reference for your client to include:

- a statement of the problem
- a structure diagram showing the layout of your site and the relationships between pages;
- a stylesheet detailing the properties/attributes of headings, text and paragraphs;
- storyboards of your pages;
- a GANTT Chart, or similar, detailing the production of the site.

Following the planning process and before you can implement the site on your computer, you must first design your graphic resources - rollover buttons and an animated GIF.

You **must** have these designs approved by your Assessor before progressing to the next Task.

Task B Graphic Resources

The creation of your resources.

In accordance with your designs:

- use appropriate image creation/manipulation software to create:
 - buttons, including the rollover buttons you will use for your navigation
 - images to be used within the animation
- using software appropriate for the purpose, create an animated GIF.

Task C Implementation, Testing and Evaluation

Creation of the site.

Using your designs, create a Frame based and a Non Frame based site linked together by a 'first' page, which will offer the user the choice of site to use. Both sites will incorporate the same content, i.e. both will have:

- a course menu page with textual links to course information pages;
- a search page linked to a database with information presented in a dynamically generated response page;
- a feedback page containing a form to e-mail requests for further information back to the client.

Rollover buttons are to be used for both Non-Frame and Frame menu links to the above pages.

A CSS file based on the stylesheet (designed in Task A) will be used to apply styles for at least two headings, text, paragraph and textual links across **all** pages.

Upload/publish the site on to the company web server. Test the site using two different browsers.

Evaluate the site.

Candidates should complete the following tasks

Task A - Design (Terms of Reference)

- 1a Create a Terms Of Reference for your client, to include:
- i. A Statement of the Problem that the creation of a web site will solve
 - ii. Include a Structure Diagram to show the links between each page of the web site
 - iii. Create a separate Stylesheet describing the formats of at least two headings, text paragraphs and textual links (font style, font type, font colour, paragraph indents, line spacing etc.) to be used throughout the web site. This stylesheet will be used to define a Cascading Style Sheet (CSS) file for the web site.
 - iv. Using the Storyboards supplied, create sketches for the Non Frames pages; the Frameset page and the content pages within the Main Frame. Include supporting information such as
 - a brief explanation as to the purpose of each page;
 - text required to be included for each page (on a separate sheet if necessary);
 - images required (use a 'legend' to identify images and their filenames);
 - link information: destinations, and the different colours of normal, active and visited links;
 - production notes - background page colour and background image used, layer.
 - v. A GANTT Chart, or similar, of the entire production of the web site from the initial discussion with the client to submission of the completed site and detailing stages and timescales.

Graphic Resources

- 1b Design Graphic Resources
- i) Design rollover button graphics on a separate sheet(s) of paper and annotate these designs to indicate button colours, captions, font type, size, style and colour used for the captions and the size of the buttons in pixels. Additional information regarding the difference between normal button state and the look of the button when the mouse is moved over it should be included, i.e. change in background/font colours. The buttons created will include:
 - Course Information
 - Search
 - Feedback
 - ii) Design an animated GIF detailing the content of each frame within the animation and including animation settings such as looping and duration.

When your designs are complete, write your name, the date, and the number of this assignment on each sheet of paper and hand them to your Assessor.

Your paperwork will include:

- a Terms of Reference including Statement of the Problem, Objectives, Structure Diagram, Style Sheet, Storyboards and GANTT Chart, or similar, of production;
- a sheet detailing the button graphic designs including supporting information;
- a sheet detailing the design of an animated GIF.

Your designs will be marked, and if they do not meet the assessment criteria, you will be given the opportunity to improve them.

Task B - Graphic Resources

2a Using your graphic designs created in Task A1b:

Using appropriate graphic creation/manipulation software:

- Create buttons suitable for navigation
- Create two of each button - the normal button state and the rollover button state using the following captions:
 - i) Information
 - ii) Search
 - iii) Feedback
- Create the images to be included in the animated GIF

2b Animated image

Using software appropriate for the purpose of creating an animated GIF.

- Insert the images
- Include an appropriate number of frames
- Include appropriate animation settings to enable smooth transition between frames

Task C - Implementation of a web site

Using your storyboards, in accordance with your structure diagram, incorporating the images created in Task B and linking to the database provided by your Assessor, create a series of web pages for use in both a Frame based and a Non-Frame based web site.

3a Creation of the Cascading Style Sheet (CSS)

Using the Style Sheet created in Task A1a (iii), set up a single CSS file containing various styles which will be incorporated into all the pages in the web site.

- Define the following:
 - i least two Heading styles;
 - ii a style for textual links
 - iii a style for all text enclosed by the <p> (paragraph) tag
- Provide a printout of the contents of the CSS file.

3b Creation of pages for use in a Non-Frames site.

Create a series of pages for use in a Non-Frames web site using styles defined in the CSS file created in Task C 3a. Ensure you complete the following:

- i) a Home page containing Rollover button links to the following pages:
 - a Course Information Menu page (containing textual links to 3 further course information pages);
 - a Search page connected to a database;
 - a Feedback page based upon a form (using the Form action – **mailto:**);

- ii) a Response page to return information from a database in response to the search criteria;

NB: this will not have a link to it (**i.e. <a href...>**) as it will be created dynamically from the Search page

- iii) textual links on all pages to return the user to the menu page

- 3c Creation of pages for use in a Frames site.
Create a Frameset capable of displaying the following series of pages using styles defined in the CSS file created in Task C 3a. Ensure you complete the following:
- i) a Frameset with a horizontal split;
 - ii) an Introductory page to be the default page to appear within the lower or main frame window when the frameset is first opened;
 - iii) a Menu page to be permanently available in the upper frame and containing Rollover button links to the following pages which will appear in the lower or main frame:
 - iv) a Course Information Menu page (containing textual links to 3 further course information pages);
 - v) a Search page connected to a database;
 - vi) a Response page to return information from a database in response to the search criteria;
 - vii) a Feedback page based upon a Form (using the Form Action - mailto:);
- 3d Frames or Non-Frames
- i) Create a page to act as the first or opening page to the site containing a brief introduction to the site and offering the user textual links for the option of choosing Frames or Non-Frames.
 - ii) Include the animated GIF
- 3e Graphics
Ensure you include the following rollover graphical links to take the user to the:
- i) Course Information Menu page
 - ii) Search page
 - iii) Feedback page
- 3f Testing
Upload your web site to a specified location (web server);
- i) Using different browsers, preview your pages and check all components appear as expected.
 - ii) Check all links work as expected;
 - iii) Check the response from the database to search criteria is correct and presented in a meaningful manner;
 - iv) Verify the form contents have been received in a sensible format;
- 3g Evaluation
- i) Comment on whether or not the web site has satisfied the Terms Of Reference .
 - ii) Identify potential future enhancements for the web site.
 - iii) Outline a plan for effective and periodic maintenance of the web site including implementation of the enhancements detailed above. Include an indication of realistic timescales.

Note

- At the conclusion of this assignment, hand all paperwork and disks to the test supervisor.
- Ensure that your name is on the disk (if using a floppy disk) and all documentation.
- If the assignment is taken over more than one period, all floppy disks and paperwork must be returned to the test supervisor.