Pearson
Higher Nationals in

Computing

SAMPLE ASSESSMENT MATERIALS (SAMs)

Unit 10: Website Design & Development

For use with the Higher National Certificate and
Higher National Diploma in Computing

Assignment Brief Number: 1

First teaching from September 2017

Issue   1

Edexcel, BTEC and LCCI qualifications

Edexcel, BTEC and LCCI qualifications are awarded by Pearson, the UK's largest awarding body offering academic and vocational qualifications that are globally recognised and benchmarked. For further information, please visit our qualification websites at www.edexcel.com, www.btec.co.uk or www.lcci.org.uk. Alternatively, you can get in touch with us using the details on our contact us page at qualifications. pearson.com/contactus

About Pearson

Pearson is the world's leading learning company, with 40,000 employees in more than 70 countries working to help people of all ages to make measurable progress in their lives through learning. We put the learner at the centre of everything we do, because wherever learning flourishes, so do people. Find out more about how we can help you and your learners at qualifications.pearson.com

Higher National Certificate/Diploma in Computing

Assignment Brief

Student Name/ID Number	
Unit Number and Title	**10: Website Design & Development**
Academic Year	
Unit Tutor	
Assignment Title	**Web Services Presentation and Guidebook**
Issue Date	
Submission Date	
IV Name & Date	

Submission Format
The submission is in the form of two documents/files: 1. A ten-minute Microsoft® PowerPoint® style presentation to be presented to your colleagues. The presentation can include links to performance data with additional speaker notes and a bibliography using the Harvard referencing system. The presentation slides for the findings should be submitted with speaker notes as one copy. 2. An extended guidebook **or** detailed report that provides more thorough, evaluated or critically reviewed technical information on all of the topics covered in the presentation. You are required to make use of headings, paragraphs, subsections and illustrations as appropriate, and all work must be supported with research and referenced using the Harvard referencing system.

Please note that Sample Assessment Materials are for guidance and support only.

They can be customised and amended according to localised needs and requirements.
All assignments must still be moderated as per the internal verification process.

Unit Learning Outcomes
LO1 Explain server technologies and management services associated with hosting and managing websites.
LO2 Categorise website technologies, tools and software used to develop websites.
Assignment Brief and Guidance
*Please note that assignment guidance is for reference only and should be more specific in detail to meet customised needs.

You work as a full-stack web developer for a leading creative web solutions and marketing company. As part of your role, you have been asked to create an engaging presentation to help train junior staff members on the tools and techniques associated with front- and back-end development together with the technologies and services required to set up, host and manage a typical commercial website.

In addition to your presentation you should also provide an extended guidebook containing further information for junior staff members **or** a detailed report containing a technical review of the topics covered in the presentation.

Your presentation should include:

    1. Server technologies and the management services associated with hosting and managing websites (including search engine optimisation).
    2. A review of different website technologies supported with the tools and software used to develop websites (including the differences between online website creation tools and custom built sites).

Your extended guidebook **or** detailed report should include a summary of your presentation as well as additional, evaluated or critically reviewed technical notes on all of the expected topics.

Please review the subsequent grading criteria for more details on the expected elements and topics that need to be included.

*Please access HN Global for additional resources support and reading for this unit. For further guidance and support on report writing please refer to the Study Skills Unit on HN Global. Link to www.highernationals.com |

Please note that Sample Assessment Materials are for guidance and support only.

They can be customised and amended according to localised needs and requirements.
All assignments must still be moderated as per the internal verification process.

Learning Outcomes and Assessment Criteria		
Pass	**Merit**	**Distinction**
LO1 Explain server technologies and management services associated with hosting and managing websites		**LO1 & 2** **D1** Justify the tools and techniques chosen to realise a custom built website.
P1 Identify the purpose and types of DNS, including explanations on how domain names are organised and managed. **P2** Explain the purpose and relationships between communication protocols, server hardware, operating systems and web server software with regards to designing, publishing and accessing a website.	**M1** Evaluate the impact of common web development technologies and frameworks with regards to website design, functionality and management. **M2** Review the influence of search engines on website performance and provide evidence-based support for improving a site's index value and rank through search engine optimisation.	
LO2 Categorise website technologies, tools and software used to develop websites		
P3 Discuss the capabilities and relationships between front-end and back-end website technologies and explain how these relate to presentation and application layers. **P4** Discuss the differences between online website creation tools and custom built sites with regards to design flexibility,	**M3** Evaluate a range of tools and techniques available to design and develop a custom built website.	

performance, functionality, User Experience (UX) and User Interface (UI).		