**Outcome 1 – Web Development: Essential Content**

1. **Describe the following current website development fundamentals**
2. Current web languages
3. Current web browsers
4. Current devices for displaying web pages
5. HTML validation
6. Website accessibility
7. Search engine optimisation
8. Website hosting

**Outcome 1 - Web Development: Complex Content**

1. **Describe the following current web development technologies**
2. CSS Media Support
3. Transferring files to servers
4. Methods of accessing remote sites
5. SSL support
6. Server-side includes
7. Server Error resolutions

**Outcome 2 – Plan and design a web solution for the given brief**

Please provide the following documents as evidence of your planning and design. Documentation should show awareness of designing for redesign and consistency. Page content summaries should show where interactive and rich media elements will be used.

1. A requirements document
2. A sitemap
3. Wireframes – detailing summaries of page content

**Outcomes 3 & 4 – Integrated Project**

Learners are required to plan, design and implement, a website which satisfies the given brief.

Learners should produce evidence at each stage of the development process. Learners should also provide evidence of the web pages that they have created through screenshots and printouts of their code. An evidence checklist has been provided to allow the learner to keep track of their progress through the task. The website should be developed using HTML5, CSS3, an appropriate server-side programming language and a database for storing and accessing external data.

This assessment should be carried out in controlled, supervised conditions. Learners should have access to reference materials.

**Project Brief – Web Development**

Glasgow Kelvin College provides flexible learning opportunities to students and members of the public to improve their digital skills. These courses are free and available to all and they would like a website that informs potential learners about the courses that are available and how to access the opportunities.

The courses that the college offers can be split into three main categories: College Certification, SQA Certification and ECDL (European Computer Driving Licence).

The manager of the centres has included a brief list of what each of the pages should include, but is happy to leave the overall design of the website to you. The manager has also included text and pictures that they would like to be included on the site. At the moment, the centre is open Monday to Friday. The tutor led sessions for each centre are as follows:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Monday | Tuesday | Wednesday | Thursday | Friday |
| AM 9:30 – 12:15 | No Tutor | Tutor on Duty | Tutor on Duty | Tutor on Duty | Tutor on Duty |
| PM – 1 – 4:15 | Tutor on Duty | Tutor on Duty | Tutor on Duty | Tutor on Duty | No Tutor |

There are three main Flexible Learning Centre locations in Easterhouse, East End and Springburn. Location and travel details for each centre should be included on the website.

Centre manager’s requirements — each page must:

* Include the name of the college – Glasgow Kelvin College and the college logo
* Use the information provided
* Relevant media to be used where necessary
* Rich media and interactive content to be used appropriately
* The website should have a consistent look for elements such as navigation, colours, and fonts.
* Registration/Log In capability
* User Area to check and update personal details/record of achievement
* Navigation (links) between pages
* At least one relevant external link

Courses currently on offer through Flexible Learning include:

|  |  |  |
| --- | --- | --- |
| **College Certification** | **SQA** | **ECDL** |
| Introduction and Intermediate Word Processing | Using A Keyboard | Unit 1 – IT Security |
| Introduction and Intermediate Spreadsheets | Computer Basics | Unit 2 – IT User Fundamentals |
| Introduction and Intermediate Presentation Software | Digital Skills | Unit 3 – Word Processing |
| Introduction and Intermediate Database | Computer Applications | Unit 4 - Spreadsheets |
| Introduction and Intermediate Email | PC Passport – Web Apps: Word Processing | Unit 5 - Databases |
| Introduction and Intermediate Internet | PC Passport – Web Apps: Spreadsheets | Unit 6 - Presentations |
| Introduction to File Management | PC Passport – Web Apps: Presentations | Unit 7 – Internet & Email |
| Introduction and Intermediate Mobile App Development |  |  |
| Introduction to Office 365 Web Apps |  |  |
| Introduction to Coding |  |  |
| Introduction to Cyber Security |  |  |
| Introduction to Web Development |  |  |
| Introduction to the Internet of Things |  |  |
| Introduction to Digital Marketing |  |  |

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| **Codeworks Course** | **Certification** |
| Getting Started with Codeworks | NPA Digital Literacies – SCQF Level 3 |
| Codeworks Digital | NPA PC Passport – Web Apps – SCQF Level 4 |
| Codeworks Developer | Codeworks Developer Certificate |
| Codeworks Pro | PDA Web Development |

Details of each of these courses have been provided

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| College Certification |
| Learners can take a range of courses at different levels and receive college certification and recognition for learning.  Introductory courses are for those with little or no experience of using a computer or digital device. The introductory courses cover a range of skills such as using office applications, file management up to developing mobile apps and web pages.  Intermediate courses build upon skills developed through the introductory courses and will generally lead to preparing learners for ECDL assessments or further study in other programmes. |

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| SQA Certification |
| The SQA units available in Flexible learning are aimed at SCQF levels 3 and 4. These units have been chosen as they combine well with our introductory and intermediate college certificated courses.  The level 3 courses in Using A Keyboard and the NPA in Digital Literacies which comprises the Computer Basics, Digital Skills and Computer Applications units. These can be achieved as stand-alone units but all three must be completed to receive the NPA in Digital Literacies.  At level 4 the PC Passport NPA again is comprised of three units: Web Apps: Word Processing, Web Apps: Spreadsheets and Web Apps: Presentations. These again can be achieved as stand-alone units but all three must be completed to receive the NPA. |

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| ECDL |
| The European Computer Driving Licence is an SCQF level 5 course made up of 7 units. All 7 units must be completed to achieve your certificate.  The units are mainly practical - from using office applications, managing files and using the internet and email applications. There are also a couple of units which require you to demonstrate knowledge and understanding of IT security and the fundamentals of using the operating system. |

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| Site Information |
| Easterhouse Flexible Learning Centre  1200 Westerhouse Rd,  Glasgow  G34 9HZ |
| East End Flexible Learning Centre  2 Haghill Rd,  Glasgow  G31 3SR |
| Springburn Library and Flexible Learning Centre  123 Flemington St,  Glasgow  G21 4TD |

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| Images provided |
| Relevant images are provided in the required files section of the assessment area on the college VLE. |

**Outcome 5 – Test and deploy a web solution for the given brief**

Candidates should provide the url for the deployed website alongside a completed test log and bug report which covers the following areas:

* Validation checking
* Accessibility ensurance
* Link checking
* Size reports
* Transfer of files to servers
* Download time testing