

## PERFORM WEBSITE DESIGN

**UNIT CODE: IT/OS/ICT/CR/5/6**

### UNIT DESCRIPTION

This unit covers the competencies required to perform Website Design. It Involves gathering data required, determining of website design tool, developing a dynamic functional website, host website developed, perform routine website maintenance.

### ELEMENTS AND PERFORMANCE CRITERIA

<b>ELEMENT</b>	<b>PERFORMANCE CRITERIA</b> <i>(Bold and italicised terms are elaborated in the Range)</i>
1. Gather data required	1.1 <b>Website requirements</b> are obtained and analysed as per website type to be developed 1.2 Website design is done based on the obtained requirements. 1.3 Website design is done as per the data gathered
2. Determine Website design tool	2.1 Identify and consider <b>Appropriate website authoring software suite</b> 2.2 Installation and configuration of adopted web authoring software or desired scripting language is done
3. Develop functional website	3.1 Development of web pages is done as per user requirements 3.2 Adding interactivity to the website is done as per the user requirements. 3.3 Website testing is done to check Interactivity of the website. 3.4 Linkage of website to the database is done based on the user requirements.
4. Host Website developed	4.1 Legal and regulatory requirements are determined based on the existing ICT laws. 4.2 Assigning of the <b>domain name</b> is done based on the existing laws. 4.3 <b>Website security measures</b> are implemented as per the existing ICT laws.
5. Perform Website Routine Maintenance	5.1 Links of the website are tested, and corrections are done

<b>ELEMENT</b>	<b>PERFORMANCE CRITERIA</b> <i>(Bold and italicised terms are elaborated in the Range)</i>
	5.2 website pages are tested according to the user requirements and necessary changes are done 5.3 verification of output data is done to ensure it conforms to the user requirements 5.4 Website version is upgraded to meet the current standards 5.5 Continuous creation, update and archiving of content is done 5.6 Generate maintenance report as per the internal policy

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### **RANGE**

This section provides work environment and conditions to which the performance Criteria apply. It allows for different work environment and situations that will affect

Performance.

Variable	Range <i>May include but is not limited to:</i>
1. Website requirements	<p>1.1 Business Requirements define the objectives and what problems the stakeholder intends to solve with the product.</p> <p>1.2 User Requirements describe how user expectations and how they will interact with the product. Use the features, functions, and content described in your scenarios to develop your requirements. Your user scenarios should outline the tasks your users want to complete on your site.</p> <p>1.3 Functional Requirements provide details of how a product should behave and specify what is needed for development.</p>
2. Appropriate website authoring software suite	2.1 refers to a web authoring package that is specifically designed to allow you to create web pages and web sites. Examples include Dreamweaver and Microsoft Front Page
3. domain name	<p>3.1 an identification string that defines a realm of administrative autonomy, authority or control within the Internet.</p> <ul style="list-style-type: none"> <li>✓ TLD - Top Level Domains</li> <li>✓ ccTLD - country code Top Level Domains</li> <li>✓ gTLD - generic Top-Level Domain.</li> <li>✓ IDN ccTLD - internationalized country code top-level domains</li> </ul>
4. Website security measures	<p>4.1 Keep software up to date</p> <p>4.2 Watch out for SQL injection.</p> <p>4.3 Protect against XSS attacks.</p> <p>4.4 Beware of error messages.</p> <p>4.5 Check your passwords.</p> <p>4.6 Avoid file uploads.</p> <p>4.7 Use HTTPS</p>

## REQUIRED KNOWLEDGE AND UNDERSTANDING

*The individual needs to demonstrate knowledge and understanding of:*

1. Web programming
2. Web programming languages
3. Web Authoring software suite
4. Web Authoring tools
5. Web Hosting procedures
6. Database Creation
7. Types of websites
8. Website testing techniques
9. Website security threats and measures
10. Legal requirements and laws during website hosting

### **FOUNDATION SKILLS**

The individual needs to demonstrate the following foundation skills:

- Communications (verbal and written);
- Proficient in ICT;
- Problem solving
- Planning
- Report writing

## EVIDENCE GUIDE

This provides advice on assessment and must be read in conjunction with the performance criteria, required knowledge and understanding and range.

1. Critical Aspects of Competency	<b>Assessment requires evidence that the candidate:</b> 1.1 Obtained and analysed website requirements 1.2 Designed Website based on the obtained requirements. 1.3 Identified the Appropriate website authoring software suite 1.4 Linked the website with the database 1.5 Implemented Website security measures 1.6 Performed website maintenance
2. Resource Implications	<b><i>The following resources must be provided:</i></b> 2.1 Resources the same as that of workplace are advised to be applied  Including computer, software suite, hosting server etc
3. Methods of Assessment	<b>Competency may be assessed through:</b> 3.1 Oral test 3.2 Observation 3.3 Practical demonstration
4. Context of Assessment	Competency may be assessed individually in the actual workplace or through a simulated work place setting
5. Guidance information for assessment	Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended.

## PERFORM COMPUTER REPAIR AND MAINTENANCE

**UNIT CODE: IT/OS/ICT/CR/6/6**