

PERFORM WEBSITE DESIGN AND DEVELOPMENT

ISCED UNIT CODE: 0612554 07A

TVET CDACC UNIT CODE: SEC/CU/CS/CR/07/5/MA

Relationship to Occupational Standards

This unit addresses the unit of competency: Perform website design and development.

Duration of Unit:200hours

Unit Description

This unit specifies competencies required Design a website. It involves gathering data required, determining website design tool, developing functional website, host website, develop a website and perform website routine maintenance.

Summary of Learning Outcomes

Learning Outcomes	Durations (Hours)
1. Gather Data required	20
2. Determine website design tools	30
3. Develop functional website	80
4. Host Website developed	40
5. Monitor Perform Website Routine Maintenance	30
Total Hours	200

Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcome	Content	Suggested Assessment Method
1. Gather data required for web site development	1.1 Meaning of web terms. 1.2 Importance of website 1.3 Types of websites 1.4 Website requirements 1.5 Web Programming languages	▪ Observation ▪ Written assessment ▪ Oral assessment ▪ Practical tests
2. Determine Website design	2.2 Types of website authoring tools 2.3 Criteria of choosing website	▪ Observation ▪ Written assessment

tool	authoring tools 2.4 Installation and configuration of website authoring tools 2.5 Use of website authoring tools	▪ Oral assessment ▪ Practical tests
3. Develop functional website	3.1.HTML CODING 3.1.1 Formatting tags 3.1.2 Hyperlinks tag 3.1.3 Tables tags 3.1.4 Frames tags 3.1.5 Forms tags 3.1.6 List tags 3.2.SCRIPTING Functions of scripting languages Types of scripting languages 3.3.Java scripting 3.1.1 JS Statements 3.1.2 JS Variables 3.1.3 JS Operators 3.1.4 JS Data Types 3.1.5 JS Functions 3.1.6 JS Objects 3.1.7 JS Events 3.1.8 JS Strings 3.1.9 JS Numbers 3.1.10 JS Arrays 3.4.PHP 3.4.1 Importance of PHP 3.4.2 PHP Syntax 3.4.3 PHP Variables 3.4.4 PHP Data Types 3.4.5 PHP Operators 3.4.6 PHP control structures 3.4.7 PHP Functions	▪ Observation ▪ Written assessment ▪ Oral assessment ▪ Practical tests

	3.4.8 PHP Arrays 3.4.9 PHP Forms 3.5.Database Creation 3.6. Database Linkage	
4. Host Website developed	4.1.Website hosting process 4.2.Factors to consider when selecting a host. 4.3.Legal and regulatory requirements 4.4.Domain name 4.5.Uploading web site 4.6.Security measures	▪ Observation ▪ Written assessment ▪ Oral assessment ▪ Practical tests
5. Perform Website Routine Maintenance	5.1.Importance of website testing 5.2.Components of the website functionalities 5.3.Creation, update and archiving of contents 5.4.Generate maintenance report as per internal policy	▪ Observation ▪ Written assessment ▪ Oral assessment ▪ Practical tests

Suggested Methods of Delivery

- In Instructor led facilitation of theory
- Demonstration by trainer
- Practical work by trainee
- Viewing of related videos
- Group discussions

Recommended Resources for 25 trainees.

S/No.	Category/Item	Description/ Specifications	Quantity	Recommended Ratio (Trainee: Item)
A	Learning Materials			
31.	Textbooks		13 pcs	13:1
32.	Installation manuals		5pcs	5:1
33.	Charts			
34.	PowerPoint presentations	For trainer's use		
B	Learning Facilities & infrastructure			
35.	Lecture/theory room		1	25:1
36.	Computer Laboratory		1	25:1
37.	Internet Connection			
C	Consumable materials			
38.	Printing papers		1 ream	1:20
39.	Toners		2 pcs	13:1
40.	Assorted colour of whiteboard markers			
D	Tools and Equipment			
24.	Computers/Smartphones		25 pcs	1:1
25.	Projector		1 pc	25:1
26.	HTML		25 pc	1:1
27.	CMS {Wordpress or Joomla or Drupal}		25 pc	1:1
28.	PHP		25 pc	1:1
29.	Web hosting tools - Xampp		25 pc	1:1