

## NATIONAL SKILLS QUALIFICATION

## LEVEL 4

# TITLE: E-COMMERCE DEVELOPMENT

**YEAR: 2024** 

#### **GENERAL INFORMATION**

#### **QUALIFICATION PURPOSE**

This qualification aims to equip learners with knowledge and skills needed to build and manage E-Commerce applications using PHP and Content Management System (CMS).

#### **QUALIFICATION OBJECTIVES**

The learner should be able to: -

- i. Identify the fundamentals of e-commerce systems
- ii. Develop an E-Commerce website using PHP
- iii. Implement security measures
- iv. Set up an E-Commerce site on Content Management System
- v. Customize Content Management System themes for E-Commerce
- vi. Optimize E-Commerce applications for performance
- vii. Test and debug E-Commerce systems

## **Mandatory Units**

Unit No	Reference Number	NOS Title	Credit Value	Guided Learning Hours	Remark
UNIT 01	ICT/ECD/001/L4	Occupational Health and Safety	2	20	LEVEL 4
UNIT 02	ICT/ECD/002/L4	Communication and Interpersonal Skills	2	20	LEVEL 4
UNIT 03	ICT/ECD/003/L4	Team Work	2	20	LEVEL 4
UNIT 04	ICT/ECD/004/L4	Information Technology and IT Ethics	2	20	LEVEL 4
UNIT 05	ICT/ECD/005/L4	Web Design	3	30	LEVEL 4
UNIT 06	ICT/ECD/006/L4	Database Concepts for E-Commerce	3	30	LEVEL 4
UNIT 07	ICT/ECD/007/L4	Introduction to E- Commerce using PHP	5	50	LEVEL 4
UNIT 08	ICT/ECD/008/L4	Introduction to E- Commerce using Content Management System (CMS)	4	40	LEVEL 4
UNIT 09	ICT/ECD/009/L4	User Experience Design (UI/UX)	3	30	LEVEL 4
UNIT 10	ICT/ECD/010/L4	B2B and B2C E- commerce Concepts	4	40	LEVEL 4
TOTAL			30	300	

#### NATIONAL SKILLS QUALIFICATION

#### LEVEL 4: E-COMMERCE DEVELOPMENT

Unit 01: OCCUPATIONAL HEALTH AND SAFETY

Unit Reference Number: ICT/ECD/001/L4

NSQ Level: 4

**Credit Value: 2** 

**Guided Learning Hours: 20** 

Unit Purpose: This unit specifies the competencies required to demonstrate understanding of safe work practices, it involves learning about workplace safety correct use of signs and symbols, Identifying and reducing risks of hazards in the work environment

#### Unit assessment requirements/ evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development is carried out.

#### Assessment methods to be used include:

- 1. Direct Observation/oral questions (DO)
- 2. Question and Answer (QA)
- 3. Professional Discussion (PD)
- 4. Reflect Journal (RJ

## UNIT 01: OCCUPATIONAL HEALTH AND SAFETY

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA  The learner can:	Evidence Type		nce age
LO 1: Demonstrate	1.1	Explain safe work practice and instructions in an ICT environment			
Safe working Practices and Instructions	1.2	Carry out safe work practices and instructions in an ICT environment			
mstructions	1.3	Work in accordance with health and safety best practices in an ICT environment			
	1.4	Follow all necessary instructions related to safety in the work place			
LO 2: Demonstrate	2.1	Identify work environment hazards in an ICT environment			
Understanding of Safety Hazards and	2.2	State various methods to reduce the risk of identified hazards in an ICT environment			
risks	2.3	Demonstrate use of safety equipment applicable to ICT environment.			
LO 3: Possess the	3.1	State how to maintain hygienic, safe and secure workplace.			
ability to take appropriate actions during	3.2	Demonstrate the uses of safety equipment in an ICT environment as required.			
accident/injury	3.3	Identify basic first aid equipment			
	3.4	Illustrate basic first aid treatments			
LO 4: Demonstrate	4.1	Use safe access and exit routes in the work environment			
safe work habit and clean work environment	4.2	Dispose all wastes appropriately to designated waste facilities			

Unit 02: COMMUNICATION AND INTERPERSONAL SKILLS

Unit Reference Number: ICT/ECD/002/L4

NSQ Level: 4

**Credit Value: 2** 

**Guided Learning Hours: 20** 

Unit Purpose: This unit specifies the competencies required to demonstrate good

communication and interpersonal skills. It involves the ability to read and

understand documented instructions and the ability to know how to communicate

respectfully when in a bad mood or under pressure.

Unit assessment requirements/ evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human

development is carried out.

Assessment methods to be used include:

1. Direct Observation/oral questions (DO)

2. Question and Answer (QA)

3. Professional Discussion (PD)

4. Reflect Journal (RJ)

## UNIT 02: COMMUNICATION AND INTERPERSONAL SKILL

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA  The learner can:	Evidence Type		dence F. Page	
LO 1: Know of the	1.1	State reasons why good communication is important				
importance of	1.2	List ways to communicate effectively				
good communication	1.3	Exhibit patience and a mild demeanor while communicating with colleagues, managers and clients				
	1.4	Demonstrate how to speak in a respectful manner				
	1.5	Use respectful body language even when in a bad mood or while under pressure				
LO 2: Demonstrate ability to follow	2.1	Read and accurately follow steps in a web framework/plugins installation manual				
documented instructions	2.2	Find specific Class definitions and Method descriptions in the programming language reference document.				
	2.3	Find feature descriptions in the plugin framework documentation, while using a plugins/framework,				

#### **UNIT 03: TEAMWORK**

Unit Reference Number: ICT/ECD/003/L4

NSQ Level: 4 Credit Value: 2

**Guided Learning Hours: 20** 

#### **Unit Purpose:**

This unit is aims to equip the learner with necessary skills, knowledge and understanding required to develop team spirit and positive working relationship with colleagues.

#### Unit Assessment requirement

Assessment of this unit must be at a real practical work environment; simulation is not allowed unless where indicated.

Unit assessment requirements/evidence requirements

- Observation
- Work Product
- Professional Discussion
- Question and Answer

## Unit 03: Teamwork

LEARNING		PERFORMANCE CRITERIA	Evidence		ider		
OBJECTIVE			Type		f. P	age	
(LO)				No	).		
The learner will:		The learner can:					
LO 1	1.1	Identify the need for developing					
Positive working		positive working relationship with					
relationship with		colleagues					
colleagues	1.2	Recognize the importance of					
		relating with other people in a way					
		that makes them feel valued and					
		respected					
	1.3	Assist team members when					
		required.					
	1.4	Report to the appropriate personnel					
		when request for assistance fall					
		outside area of responsibility.					
	1.5	Communicate information to					
		colleagues about individual work					
		that may affect team work.					
LO 2	2.1	Recognize own role and					
		responsibilities within a team					
Take responsibility	2.2	Perform individual tasks in line					
within the team		with the team's rules and					
		regulations.					
	2.3	Participate effectively in					
		teamwork.					
LO.3	3.1	Explain organizational code of					
Compliance with		conduct					
policy of	3.2	Work in line with organizational					
organization		standard					
	3.3	Use organizational code of practice					
	3.4	Adhere strictly to instructions					
		given by the Management					

#### NATIONAL SKILLS QUALIFICATION

#### LEVEL 4: E-COMMERCE DEVELOPMENT

#### **UNIT 04: INFORMATION TECHNOLOGY AND IT ETHICS**

Unit Reference Number: ICT/ECD/004/L4

NSQ Level: 4

**Credit Value: 2** 

**Guided Learning Hours: 20** 

**Unit Purpose:** This unit aims to provide learners with an understanding of fundamental IT concepts and ethical principles governing the use of technology

#### Unit assessment requirements/ evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development is carried out.

#### Assessment methods to be used include:

- 1. Direct Observation/oral questions (DO)
- 2. Question and Answer (QA)
- 3. Witness Testimony (WT)
- 4. Assignment (ASS), etc.

## **UNIT 04: INFORMATION TECHNOLOGY AND IT ETHICS**

LEARNING OBJECTIVE (LO)		PERFORMANCE CRITERIA	Evidence Type			ce				vidence lef. Page lo.	
The learner will:		The learner can:									
LO 1:	1.1	Define basic IT terminologies and									
Explain key		principles									
concepts in Information	1.2	Identify the different categories of									
	1.2	software and hardware									
Technology (IT) and their	1.3	Discuss the role of IT in improving business processes									
relevance in	1.4	Outline the key components of									
business	1	information systems									
processes											
LO 2:	2.1	Analyze privacy concerns related to e-									
Evaluate the		commerce platforms									
ethical and legal	2.2	Discuss data protection laws and their									
implications of		relevance to IT systems.									
IT use in e-	2.3	Evaluate the ethical issues surrounding									
commerce		intellectual property and digital rights									
	2.4	Outline ethical guidelines for the									
		responsible use of IT.									
LO 3:	3.1	Recognize common cybersecurity									
Identify and		threats in e-commerce									
apply best	3.2	Implement basic security measures for									
practices for IT		protecting sensitive data									
security and	3.3	Apply guidelines for secure user									
user protection		authentication									
in e-commerce	3.4	Assess the impact of security breaches									
		on e-commerce businesses									

**UNIT 05: WEB DESIGN** 

Unit Reference Number: ICT/ECD/005/L4

NSQ Level: 4

**Credit Value: 3** 

**Guided Learning Hours: 30** 

**Unit Purpose:** This unit aims to equip learners with the skills and knowledge needed to design and develop functional and visually appealing E-Commerce websites.

#### Unit assessment requirements/ evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development is carried out.

#### Assessment methods to be used include:

- 1. Direct Observation/oral questions (DO)
- 2. Question and Answer (QA)
- 3. Witness Testimony (WT)
- 4. Assignment (ASS), etc.

### **UNIT 05: WEB DESIGN**

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA  The learner can:	Evidei Type	nce		iden f. Pa	
LO 1: Design Effective Web Interfaces for E- Commerce Platforms	1.1	Design user-friendly navigation structures that guide customers effortlessly through the e-commerce site, using clear menus, breadcrumbs, and search functionality to enhance the user experience.					
	1.2	Create responsive designs that adapt seamlessly to different devices (e.g., mobile, tablet, desktop) using fluid grids, flexible images, and media queries to ensure a consistent user experience across platforms.					
	1.3	Implement a visually appealing layout that balances text, images, and white space, enhancing readability while emphasizing key products or calls-to-action (CTAs) to improve conversion rates.					
	1.4	Optimize website performance by compressing images, minifying CSS and JavaScript, and leveraging caching techniques, ensuring fast load times and a smooth user experience on ecommerce platforms.					
LO 2: Design a	2.1	Create a basic website structure using HTML5.					
functional e- commerce website using	2.2	Style the website with CSS, ensuring it aligns with design best practices.					
HTML, CSS, and JavaScript.	2.4	Implement JavaScript for dynamic content and improved user interaction.  Optimize the site for mobile responsiveness and cross-browser compatibility.					
LO 3:	3.1	Implement shopping cart functionality.					
Integrate e- commerce functionality	3.2	Integrate secure payment gateways into the website.  Demonstrate a smooth checkout					
such as shopping carts and payment gateways.	3.4	process.  Optimize site performance to handle high traffic and transactions.					

**UNIT 06: DATABASE CONCEPTS FOR E-COMMERCE** 

**Unit Reference Number:** ICT/ECD/006/L4

NSQ Level: 4

**Credit Value: 3** 

**Guided Learning Hours: 30** 

**Unit Purpose:** This unit aims to equip learners with skills and knowledge of fundamental database concepts, focusing on their application in e-commerce platforms.

### Unit assessment requirements/ evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development is carried out.

#### Assessment methods to be used include:

- 1. Direct Observation/oral questions (DO)
- 2. Question and Answer (QA)
- 3. Witness Testimony (WT)
- 4. Assignment (ASS), etc.

## UNIT 06: DATABASE CONCEPTS FOR E-COMMERCE

LEARNING		PERFORMANCE CRITERIA	Ev	vide	ence		Ev	ride	ence	
OBJECTIVE (LO)		The learner can:				Re No		Pag	ge	
The learner will:										
LO 1:	1.1	Design a database schema using entity-								
Understand		relationship diagrams (ERD) to								
Relational		represent the relationships between								
Database		products, customers, and transactions.								
Design and	1.2	Normalize database tables to eliminate								
Structure		redundancy and ensure efficient								
	1.2	storage of data.								
	1.3	Define primary and foreign keys to								
		establish relationships between database tables (e.g., linking customer								
		and order data).								
	1.4	Use SQL queries to retrieve, insert,								
	1.1	update, and delete data from the								
		database.								
LO 2:	2.1	Set up a relational database (e.g.,								
Implement		MySQL, PostgreSQL) to manage								
Database		customer, product, and order data.								
Management for	2.2	Use indexing techniques to speed up								
E-Commerce	2.2	query performance and improve the								
Platforms		responsiveness of e-commerce								
		platforms.								
	2.3	Ensure the database is optimized for								
		large-scale e-commerce operations,								
		handling large volumes of product and								
		transaction data efficiently.								
	2.4	Implement backup and recovery plans								
		to protect data in case of system								
		failures or cyber-attacks								
LO 3:	3.1	Use database encryption techniques to								
Ensure Database		protect sensitive customer data, such as								
Security and		personal information and payment								
Integrity	2.2	details.								
	3.2	Implement user roles and permissions to restrict access to sensitive data and								
		prevent unauthorized database modifications.								
	3.3	Perform regular database audits to								
		detect and address potential security								
		vulnerabilities.								
	3.4	Ensure data integrity by enforcing								
		validation rules and constraints on								
		database fields (e.g., ensuring product								
		prices are positive).								

#### UNIT 07: INTRODUCTION TO E-COMMERCE USING PHP

Unit Reference Number: ICT/ECD/007/L4

NSQ Level: 4

**Credit Value: 5** 

**Guided Learning Hours: 50** 

**Unit Purpose:** This unit aims to equip learners the skills to development of e-commerce platforms using PHP, a popular server-side scripting language.

#### **Unit assessment requirements/ evidence requirements:**

Assessment must be carried out in real workplace environment in which learning and human development is carried out.

#### Assessment methods to be used include:

- 1. Direct Observation/oral questions (DO)
- 2. Question and Answer (QA)
- 3. Witness Testimony (WT)
- 4. Assignment (ASS), etc.

## **UNIT 07: INTRODUCTION TO E-COMMERCE USING PHP**

LEARNING OBJECTIVE		PERFORMANCE CRITERIA	Evidence Type						
(LO)							Vo.	J	
		The learner can:							
The learner									
will:								, ,	
LO 1:	1.1	Explain the syntax and structure of							
Understand the		PHP programming.							
fundamentals of	1.2	Write basic PHP scripts to handle form							
PHP and its use		data and user interactions.							
in developing e-	1.3	Integrate PHP with HTML to create							
commerce		dynamic web pages.							
platforms.	1.4	Test and debug simple PHP scripts to							
		ensure functionality.							
LO 2:	2.1	Set up a MySQL database to store							
Develop an e-		product and customer information.							
commerce site	2.2	Create and manage product listings,							
using PHP and		shopping carts, and user accounts using							
MySQL.		PHP.							
	2.3	Implement a secure user authentication							
		system.							
	2.4	Test the e-commerce functionality and							
		troubleshoot common issues.							
LO 3:	3.1	Implement payment gateways using							
Integrate		PHP (e.g., PayPal, Stripe, Paystack,							
payment		Flutter, etc.).							
processing	3.2	Secure sensitive user data with							
systems and		encryption and secure protocols.							
ensure	3.3	Set up transaction logs to track orders							
transaction		and payments.							
security.	3.4	Ensure compliance with e-commerce							
		regulations regarding data privacy and							
		payment security.							

## UNIT 08: INTRODUCTION TO E-COMMERCE USING CONTENT MANAGEMENT SYSTEM (CMS)

Unit Reference Number: ICT/ECD/008/L4

NSQ Level: 4

**Credit Value: 4** 

**Guided Learning Hours: 40** 

**Unit Purpose:** This unit aims to equip learners with skills and knowledge to build and manage e-commerce platforms using a content management system (CMS).

#### Unit assessment requirements/ evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development is carried out.

#### Assessment methods to be used include:

- 1. Direct Observation/oral questions (DO)
- 2. Question and Answer (QA)
- 3. Witness Testimony (WT)
- 4. Assignment (ASS), etc.

## UNIT 08: INTRODUCTION TO E-COMMERCE USING CONTENT MANAGEMENT SYSTEM (CMS)

LEARNING OBJECTIVE (LO)		PERFORMANCE CRITERIA	Evidence Type		lence Page
The learner will:		The learner can:			
LO 1: Understand the basics of Content	1.1	Install and configure Content Management System (CMS) for e- commerce purposes.			
Management System and its application in e- commerce.	1.2	Choose and customize a Content Management System (CMS) theme for an online store.			
	1.3	Install essential plugins such as WooCommerce for product management.			
	1.4	Ensure proper website navigation and usability.			
LO 2: Set up an e- commerce	2.1	Add product listings, including product categories, prices, and images.			
platform using Content	2.2	Set up shopping carts and integrate payment gateways.			
Management System and	2.3	Manage customer accounts and order tracking.			
WooCommerce.	2.4	Apply SEO best practices to optimize the e-commerce platform for search engines.			
LO 3: Customize the e-	3.1	Implement security plugins to protect against vulnerabilities.			
commerce site for performance and security.	3.2	Optimize website speed and performance through caching and image optimization.			
	3.3	Use Content Management System analytics tools to monitor site traffic and user behavior.			
	3.4	Customize checkout processes to improve user experience and conversion rates.			

UNIT 09: USER EXPERIENCE DESIGN (UI/UX)

Unit Reference Number: ICT/ECD/009/L4

NSQ Level: 4

**Credit Value: 3** 

**Guided Learning Hours: 30** 

**Unit Purpose:** This unit aims to equip learners with the skills and knowledge to design a prototype of user-friendly interfaces that enhance the customer experience.

#### Unit assessment requirements/ evidence requirements:

Assessment must be carried out in real workplace environment in which learning and human development is carried out.

#### Assessment methods to be used include:

- 1. Direct Observation/oral questions (DO)
- 2. Question and Answer (QA)
- 3. Witness Testimony (WT)
- 4. Assignment (ASS), etc.

## UNIT 09: USER EXPERIENCE DESIGN (UI/UX)

LEARNING OBJECTIVE (LO) The learner will:		PERFORMANCE CRITERIA  The learner can:	Type Re			Evidence Ref. Page No.			
LO 1:	1.1	Identify the core principles of UI/UX							
Understand the principles of		design, such as simplicity, consistency, and accessibility.							
user interface	1.2	Analyze case studies of successful e-							
(UI) design and user experience		commerce platforms from a UI/UX perspective.							
(UX) in e-commerce.	1.3	Apply heuristics to assess the usability of an e-commerce website.							
	1.4	Outline the importance of user-centered design in e-commerce applications.							
LO 2:	2.1	Create wireframes and prototypes for				Н			
Design visually		the user interface of a website.							
appealing user interfaces for e-commerce	2.2	Implement design elements such as buttons, navigation menus, and forms that align with UX best practices.							
platforms.	2.3	Ensure visual hierarchy and consistency across the website for ease of use.							
	2.4	Apply design patterns that facilitate a seamless user journey from browsing to checkout.							
LO 3: Optimize user	3.1	Conduct usability tests to gather feedback on the design.							
experience for	3.2	Analyze user behavior and interaction							
improved e-		data to identify pain points.							
commerce performance.	3.3	Implement changes based on feedback to improve usability and conversion rates.							
	3.4	Optimize the website's user interface for speed and performance to enhance the user experience.							

**UNIT 10: B2B AND B2C E-COMMERCE CONCEPTS** 

**Unit Reference Number:** ICT/ECD/010/L4

NSQ Level: 4

**Credit Value: 4** 

**Guided Learning Hours: 40** 

**Unit Purpose:** This unit aims to learners with skills and knowledge of fundamental differences between Business-to-Business (B2B) and Business-to-Consumer (B2C) E-Commerce models.

#### **Unit assessment requirements/ evidence requirements:**

Assessment must be carried out in real workplace environment in which learning and human development is carried out.

#### Assessment methods to be used include:

- 1. Direct Observation/oral questions (DO)
- 2. Question and Answer (QA)
- 3. Witness Testimony (WT)
- 4. Assignment (ASS), etc.

## **UNIT 10: B2B AND B2C E-COMMERCE CONCEPTS**

LEARNING OBJECTIVE (LO)		PERFORMANCE CRITERIA	Evidence Type			R	enco Pag	
The learner will:		The learner can:						
LO 1:	1.1	Differentiate between B2B and B2C						
Understand the		business models in e-commerce.						
key concepts and	1.2	Identify common industries and						_
characteristics of		businesses operating in B2B and						
B2B and B2C e-		B2C environments.						
commerce models.	1.3	Discuss the unique challenges and						
		opportunities in both B2B and B2C e-						
		commerce.						
	1.4	Explore case studies of successful						
		B2B and B2C platforms.						
LO 2:	2.1	Compare and contrast marketing						
Analyze the		techniques such as content marketing,						
marketing		SEO, and email campaigns for B2B						
strategies used in		and B2C.						
B2B and B2C e-	2.2	Identify buyer personas and customer						
commerce.		journeys specific to each model.						
	2.3	Design a marketing strategy that						
	2.4	targets either B2B or B2C customers.						
	2.4	Analyze the impact of digital						
		advertising and social media on both business models.						
LO 3:	3.1	Set up an e-commerce platform						
Implement an e-	3.1	tailored to B2B or B2C customers.						
commerce	3.2	Integrate features such as bulk						
platform for B2B	3.2	ordering (B2B) and personalized						
or B2C operations.		offers (B2C).						
1	3.3	Monitor and manage transactions						
		while ensuring compliance with						
		business-specific regulations.						
	3.4	Optimize the user experience based						
		on the needs of B2B or B2C buyers.						

## PARTICIPANT FOR CRITIQUE WORKSHOP

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