

TITLE:

LEVEL 3

(MOBILE APPLICATION DEVELOPMENT)

YEAR: 2024

NATIONAL SKILLS QUALIFICATION LEVEL 3 - MOBILE APPLICATION DEVELOPMENT

GENERAL INFORMATION

QUALIFICATION PURPOSE

This qualification is aimed at developing competence in mobile applications development across different platforms. The focus is on generic mobile programming language training, communication skills, personal development and workplace experience.

QUALIFICATION OBJECTIVES

The objective of this Level aims to provide the learner with the following competencies:

- 1. Understand and apply safe working practices in their work environment
- 2. Identify safety signs and symbols and how to use them correctly.
- 3. Understand the benefits of effective communication in a working environment.
- 4. Identify, read and follow documented instructions.
- 5. Understand the concepts behind software and its development life cycle.
- 6. Understand Mobile Application concepts.
- 7. Identify various mobile development platforms.
- 8. Setup mobile projects on IDE.
- 9. Add layouts and layout elements using GUI.
- 10. Preview App on emulator and physical device.
- 11. Diagnose app performance issues.

Mandatory Units

| S/No /Unit No | Reference Number | NOS Title | Credit Value | Guided Learning Hours | Remark |
|---------------------|---------------------|------------------------------------------------------|-----------------|-----------------------------|---------|
| 1 | ICT/MOB/001/L3 | Occupational Health and Safety | 2 | 20 | Level 3 |
| 2 | ICT/MOB/002/L3 | Communication and Interpersonal Skills | 2 | 20 | Level 3 |
| 3 | ICT/MOB/003/L3 | Teamwork | 2 | 20 | Level 3 |
| 4 | ICT/MOB/004/L3 | Fundamentals of Mobile Application Development | 4 | 40 | Level 3 |
| 5 | ICT/MOB/005/L3 | Working with Mobile App Development Platforms | 4 | 40 | Level 3 |
| 6 | ICT/MOB/006/L3 | Working With Programming Language | 4 | 40 | Level 3 |
| | | | | | |
| | TOTAL | | 18 | 180 | |

National Skill Qualification

LEVEL 3 - MOBILE APPLICATION DEVELOPMENT

Unit 1: OCCUPATIONAL HEALTH AND SAFETY

Unit Reference Number: ICT/MOB/001/L3

Level: 3

Credit Value: 2

Guided Learning Hours: 20

Unit Purpose: This unit specifies the competencies required to demonstrate understanding of safe work practices.

Unit Objectives

At the end of this unit, the learner should be able to:

- 1. Understand about workplace safety.
- 2. The correct use of signs and symbols.
- 3. 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.

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

UNIT 01: OCCUPATIONAL HEALTH AND SAFETY

| LEARNING OBJECTIVE (LO) | | PERFORMANCE CRITERIA | | vid ype | enc | e | | ef.] | nce Page |
|-------------------------------|-----|-------------------------------------------------------------|---|------------|-----|---|--|--------------|-------------|
| The learner will: | | The learner can: | | | | | | | |
| LO 1: Understand | 1.1 | Explain safe work practice and instructions. | | | | | | | |
| Safe working | 1.2 | Identify safety signs and symbols. | | | | | | | |
| Practices and | 1.3 | Use signs and symbols correctly. | | | | | | | |
| Instructions | 1.4 | Carry out safe work practices and instructions. | | | | | | | |
| | 1.5 | Comply to accordance with health and safety best practices. | | | | | | | |
| | | | | | | | | | |
| LO 2: | 2.1 | Identify work environment hazards. | | | | | | | |
| Demonstrate | 2.2 | List various ways to avoid common | | | | | | | |
| Understanding | | workplace hazards | | | | | | | |
| of Safety | 2.3 | State methods to reduce the risk of work | | | | | | | |
| Hazards and | | hazards. | | | | | | | |
| risks | | | | | | | | | |
| LO 3: | 3.1 | Identify basic first aid equipment. | | | | | | | |
| Possess the | 3.1 | identify the benefits of first aid | | | | | | | |
| ability to take | 3.2 | equipment | | | | | | | |
| appropriate | 3.3 | State how to maintain hygienic, safe and | | | | | | | |
| actions during | 3.3 | secure workplace. | | | | | | | |
| accident/injuri | 3.4 | State the uses of safety equipment in a | | | | | | | |
| es | | mobile application work environment. | | | | | | | |
| | | | | | | | | | |
| LO 4: | 4.1 | Use safe access and exit routes in the | | | | | | | |
| Demonstrate | | work environment. | | | | | | | |
| safe work | 4.2 | Have knowledge of safe work habit and | | | | | | | |
| habit and clean | | clean work environment. | L | L | | | | | |
| work | 4.3 | Dispose all wastes appropriately to | | | | | | | |
| environment | | designated waste facilities | | | | | | | |
| | | | | | | | | | |

UNIT 2: COMMUNICATION AND INTERPERSONAL SKILLS

Unit Reference Number: ICT/MOB/002/L3

Level: 3

Credit Value: 2

Guided Learning Hours: 20

Unit Purpose: This unit aims to provide the competencies required to demonstrate good communication and interpersonal skills.

Unit Objectives:

This unit aims to train learners 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.

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

UNIT 02: COMMUNICATION AND INTERPERSONAL SKILL

| LEARNING OBJECTIVE (LO) | | PERFORMANCE CRITERIA The learner can: | vid ype | enc | e | | f.] | nce Page |
|-------------------------------|-----|------------------------------------------|------------|-----|---|--|-------------|-------------|
| The learner will: | | | | | | | | |
| LO 1: | 1.1 | State reasons why good communication | | | | | | |
| Demonstrate | | is important. | | | | | | |
| knowledge of the | 1.2 | List ways to communicate effectively. | | | | | | |
| importance of | 1.3 | Exhibit patience and a mild demeanour | | | | | | |
| good | | while communicating with colleagues, | | | | | | |
| communication | | managers and clients. | | | | | | |
| | 1.4 | Speak in a professional manner. | | | | | | |
| | 1.5 | Use respectful body language even when | | | | | | |
| | | in a bad mood or while under pressure. | | | | | | |
| | | | | | | | | |
| LO 2: | 2.1 | Read accurately follow steps in a mobile | | | | | | |
| Demonstrate | | framework/plugin installation | | | | | | |
| ability to follow | | documentation. | | | | | | |
| documented | 2.2 | Interpret and understand mobile app | | | | | | |
| instructions | | documentation. | | | | | | |
| | 2.3 | While programming, find specific class | | | | | | |
| | | definitions and method descriptions in | | | | | | |
| | | documentations. | | | | | | |
| | | | | | | | | |
| LO 3: | 3.1 | Determine what is needed in a | | | | | | |
| Demonstrate | | documented instruction | | | | | | |
| ability to create | 3.2 | Describe how the scope of the | | | | | | |
| documented | | documented instruction is valid | | | | | | |
| instructions | 3.3 | Explain the importance of the | | | | | | |
| | | documented instruction. | | | | | | |
| | | | | | | | | |

NATIONAL SKILLS QUALIFICATION

LEVEL 3 Mobile Application Development

Unit 3: TEAMWORK

Unit Reference Number: ICT/MOB/003/L3

NSQ Level: 3

Credit Value: 2

Guided Learning Hours: 20

Unit Purpose: Trainees will learn to work in agile development environments, collaborate with diverse roles such as designers, developers, testers, and product managers, and deliver high-quality applications.

Unit Objectives:

Unit assessment requirements/ evidence requirements:

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

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

UNIT 03: TEAMWORK

| LEARNING | | PERFORMANCE CRITERIA | Ev | vide | nce | |] | Evi | iden | ce | |
|--------------------|-----|-------------------------------------------------------------------------------------------|----|------|-----|---|---|-----|------|-----|-----|
| OBJECTIVE | | | Ty | уре | | | | Ref | | Pag | e e |
| (LO) | | | , | r | | | | No. | | ह | • |
| () | | The learner can: | | | | | | | | | |
| The learner | | | | | | | | | | | |
| will: | | | | | | | | | | | |
| LO 1: Know | 1.1 | Identify key roles within a mobile app | | | | | | | | | |
| team roles and | | development team. | | | | | | | | | |
| responsibilities | | Explain functions of these roles collaborate to | | | | | | | | | |
| | | complete a project. | | | | | | | | | |
| | 1.2 | Define tasks assignment. | | | | | | | | | |
| | 1.3 | Know importance of cross-functional | | | | | | | | | |
| | | collaboration between development, design, | | | | | | | | | |
| | | and testing. | | | | | | | | | |
| Y O A *** 1 | 1.4 | Define Agile Driven Methodologies. | | | | | | 4 | | | |
| LO 2: Work | 2.1 | Explain sprint goals in an agile team. | | | | | | | | | |
| collaboratively to | 2.2 | Describe agile ceremonies such as stand-ups, | | | | | | | | | |
| contribute to | | sprint planning, and retrospectives, contributing | | | | | | | | | |
| mobile app | 2.2 | to team discussions and decisions. | | | | | | | | | |
| development | 2.3 | State tasks assignment on time while aligning | | | | | | | | | |
| goals. | | personal goals with the team's development | | | | | | | | | |
| | | goals. | | | | | | | | | |
| LO 3: | 3.1 | Has communication to als (a.g. Clash | | | | | | | | | |
| Communicate | 3.1 | Use communication tools (e.g., Slack, | | | | | | | | | |
| effectively with | | Microsoft Teams) to provide clear and timely updates on development progress, roadblocks, | | | | | | | | | |
| team members | | and changes. | | | | | | | | | |
| team memoers | 3.2 | Ensure that code changes, pull requests, and | | | | | | | | | |
| | 3.2 | project documentation are properly | | | | | | | | | |
| | | communicated through tools like GitHub, | | | | | | | | | |
| | | JIRA, or Confluence to maintain team | | | | | | | | | |
| | | transparency. | | | | | | | | | |
| | 3.3 | Effectively communicate app development | | | | | | | | | |
| | | progress or technical details to non-technical | | | | | | | | | |
| | | stakeholders, such as product owners or clients. | | | | | | | | | |
| | 3.4 | Foster a collaborative and inclusive app | | | | | | | | | |
| | | development environment. | | | | | | | | | |
| | 3.5 | Lead and support teams through app | | | | | | | | | |
| | | development challenges | | | | | | | | | |
| | 3.6 | Adapt to evolving team structures and project | | | | | | | | | |
| | | requirements. | | | | | | | | | |
| LO 4: Evaluate | 4.1 | Participate actively in sprint retrospectives | | | | | | | | | |
| and enhance | 4.2 | Review code or project deliverables | | | | Ī | T | T | | | |
| team | | collaboratively. | | | | | | | | | |
| performance in | 4.3 | Use metrics such as sprint velocity, defect | | | | | | | | | |
| app development | | rates, or app performance metrics to evaluate | | | | | | | | | |
| projects. | | the team's overall success in achieving project | | | | | | | | | |

| LEARNING | | PERFORMANCE CRITERIA | Ev | vide | nce | : | Ev | ide | nce | |
|------------------|-----|------------------------------------------------|----|------|-----|---|----|-----|-----|----|
| OBJECTIVE | | | Ty | pe | | | Re | f. | Pag | ge |
| (LO) | | | | | | | No |). | | |
| | | The learner can: | | | | | | | | |
| The learner | | | | | | | | | | |
| will: | | | | | | | | | | |
| | | goals. | | | | | | | | |
| | 4.4 | Use version control systems like Git to | | | | | | | | |
| | | collaborate on code with other developers. | | | | | | | | |
| | 4.5 | Describe project management platforms like | | | | | | | | |
| | | JIRA, Trello, or Asana to track tasks, manage | | | | | | | | |
| | | workflows, and ensure everyone is aligned on | | | | | | | | |
| | | sprint priorities. | | | | | | | | |
| | 4.6 | Leverage cloud platforms such as Firebase, | | | | | | | | |
| | | AWS, or Google Cloud to collaboratively | | | | | | | | |
| | | build, test, and deploy mobile apps. | | | | | | | | |

Unit 4: FUNDAMENTALS OF MOBILE APPLICATION DEVELOPMENT

Unit Reference Number: ICT/MOB/003/L3

Level: 3

Credit Value: 5

Guided Learning Hours: 50

Unit Purpose:

This unit specifies the competencies required to demonstrate understanding of the fundamentals of mobile applications development. It involves learning about the basics of operating systems, types and features of mobile operating systems.

Prerequisite(s)

Basic Computer Appreciation

Unit assessment requirements/ evidence requirements:

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

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

UNIT 04: FUNDAMENTALS OF MOBILE APPLICATION DEVELOPMENT

| LEARNING OBJECTIVE (LO) The learner | | PERFORMANCE CRITERIA The learner can: | Evidence Type | | | | | | | | | | | | | | | | | | | | | | R | ence Page |
|-------------------------------------|-----|-------------------------------------------------------------------|------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|------------------|
| will: | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LO 1: | 1.1 | Explain history of software application. | | | | | | | | | | | | | | | | | | | | | | | | |
| Understand | 1.2 | Describe the advantage of mobile | | | | | | | | | | | | | | | | | | | | | | | | |
| Basic Software | | application in today's world. | | | | | | | | | | | | | | | | | | | | | | | | |
| Concepts | 1.3 | Explain operating System | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1.4 | Identify types of operating systems. | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1.5 | Differentiate between types of desktop operating systems. | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1.6 | Describe Software Development life cycle | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LO 2: Understand | 2.1 | Explain the history of mobile applications. | | | | | | | | | | | | | | | | | | | | | | | | |
| Basic Mobile | 2.2 | List types of mobile operating systems. | | | | | | | | | | | | | | | | | | | | | | | | |
| Applications Concepts | 2.3 | Differentiate between Native, Hybrid and Web mobile applications. | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LO 3: | 1.1 | Identify Key Components of Mobile | | | | | | | | | | | | | | | | | | | | | | | | |
| Understand | | Development Tools | | | | | | | | | | | | | | | | | | | | | | | | |
| Mobile | 1.2 | Understand Platform-Specific | | | | | | | | | | | | | | | | | | | | | | | | |
| Application | | Development Requirements | | | | | | | | | | | | | | | | | | | | | | | | |
| Development Environment | 1.3 | Describe the Constraints and Features of Mobile Platforms | | | | | | | | | | | | | | | | | | | | | | | | |

Unit 5: WORKING WITH MOBILE APP DEVELOPMENT PLATFORMS

Unit Reference Number: ICT/MOB/004/L3

Level: 3

Credit Value: 6

Guided Learning Hours: 60

Unit Purpose:

This unit aims to equip the learners with skills and knowledge of native and hybrid mobile application development platforms.

Unit Objectives:

At the end of this Unit, trainees should be able to:

- 1. Understand the various techniques and menus found on the use of integrated development environment (IDE)
- 2. Demonstrate the ability to start new projects.
- 3. Write simple mobile applications
- 4. Preview results on an emulator as well as on a physical device.

Unit assessment requirements/ evidence requirements:

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

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

UNIT 5: Working with Mobile App Development Platforms

| LEARNING OBJECTIVE (LO) The learner will: | | PERFORMANCE CRITERIA The learner can: | | Type | | | Evidence Type | | e | | ef. | ence Pag | |
|-------------------------------------------|-----|--------------------------------------------------------------------------------------|--|------|--|--|------------------|--|---|----------|-----|-------------|--|
| LO 1: | 1.1 | Identify various programming languages | | | | | | | | | | | |
| Demonstrate | | used in mobile applications | | | | | | | | | | | |
| ability to setup mobile | 1.2 | development. | | | | | | | | | | | |
| | 1.2 | State popular mobile applications | | | | | | | | | | | |
| applications development | 1.3 | development platforms. Setup a native mobile development | | | | | | | | | | | |
| environment | 1.3 | platform of choice. | | | | | | | | | | | |
| | 1.4 | List the steps involved in building an | | | | | | | | | | | |
| | 1.7 | app for execution on an emulator. | | | | | | | | | | | |
| | 1.5 | List the steps involved in execution on a physical device. | | | | | | | | | | | |
| | 2.1 | Understand basic concepts of the | | | | | | | | | | | |
| LO 2: | 2.1 | language. | | | | | | | | | | | |
| Demonstrate | 2.2 | identify syntax peculiar to the | | | | | | | | | | | |
| understanding | | programming language | | | | | | | | | | | |
| of programming language of choice. | 2.3 | Understand the static or dynamic technology involved with the chosen library | | | | | | | | | | | |
| | 2.4 | Understand the classes and method technicalities involved in the language of choice. | | | | | | | | | | | |
| LO 3: | 3.1 | Demonstrates the initialization of a new | | | | | | | | | | | |
| understand project setup, | | mobile app project on a chosen platform (e.g., Android Studio, Xcode, or Flutter). | | | | | | | | | | | |
| configuration | 3.2 | Configures platform-specific settings | | | | | | | | \dashv | | | |
| and use of user | ٥.۷ | such as app permissions, dependencies, | | | | | | | | | | | |
| interface | | build targets to meet project | | | | | | | | | | | |
| elements. | | requirements. | | | | | | | | | | | |
| | 3.3 | Explains the directory structure and file | | | | | \exists | | | | | | |
| | | organization within the mobile | | | | | | | | | | | |
| | | development platform. | | | | | | | | | | | |
| | 3.4 | Manages resources (e.g., images, styles, | | | | | | | | | | | |

| | strings) effectively using platform- specific resource management techniques. | | | | |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| 3.5 | Utilizes platform-specific UI design tools (e.g., XML in Android, Storyboard in iOS, or Widget tree in Flutter) to create user-friendly layouts. | | | | |
| 3.6 | 6 Add files and resources to the project | | | | |
| 3.7 | • • | | | | |
| | | | | | |

UNIT 6: WORKING WITH PROGRAMMING LANGUAGE

| LEARNING OBJECTIVE (LO) The learner will: | | PERFORMANCE CRITERIA The learner can: | | Evidence Type | | | Evidence Type | | | vide ef. O. | _ |
|-------------------------------------------|-----|--------------------------------------------------------------------------------------------------------------------------------------|--|------------------|--|--|------------------|--|--|-------------------|---|
| LO 1 Understand the | 1.1 | Explain the basics of programming languages. | | | | | | | | | |
| Fundamentals of Programming Languages | 1.2 | Differentiate the core features of programming languages commonly used in mobile development, such as Java, Kotlin, Swift, and Dart. | | | | | | | | | |
| Used in Mobile Development | 1.3 | Explain syntax, semantics and structure, data types, operators in selected language | | | | | | | | | |
| | 1.4 | Explains the OOP principles of encapsulation in the context of mobile development. | | | | | | | | | |
| LO 2: Write Basic Programs | 2.1 | Develops simple programs to perform tasks such as input/output operations to display "Hello World" | | | | | | | | | |
| | 2.2 | Demonstrates simple programs using arrays and lists. | | | | | | | | | |
| | 2.3 | Apply dictionaries to manage application data. | | | | | | | | | |
| LO 3 Implement Programming | 3.1 | Selects appropriate data structures for efficient handling of mobile app-specific scenarios, such as user data or settings. | | | | | | | | | |
| Constructs to Develop | 3.2 | Explains inheritance, and polymorphism in the context of mobile development. | | | | | | | | | |
| Mobile Application Features | 3.3 | Utilizes built-in libraries to implement features such as file handling. | | | | | | | | | |
| 1 Catules | 3.4 | Utilizes built-in libraries to implement | | | | | | | | | |

| | features such as networking | | | | | |
|-----|--------------------------------------------------------------------------------|--|--|--|--|--|
| 3.: | Utilizes built-in libraries to implement features such as database management. | | | | | |

PARTICIPANT FOR CRITIQUE WORKSHOP

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