

BQA NCQF QUALIFICATION TEMPLATE

SECTION A: QUALIFICATION DETAILS																			
QUALIFICATION DEVELOPER (S)			Madirelo Training and Testing Centre																
TITLE		Certificate V in Bricklaying and Plastering						NCQF LEVEL		5									
STRANDS (where applicable)		N/A																	
FIELD		Physical Planning and Construction						CREDIT VALUE		120									
SUB FIELD		Building Construction																	
New Qualification		✓		Legacy Qualification						Renewal Qualification									
										Registration Code									
SUB-FRAMEWORK		General Education						TVET		✓		Higher Education							
QUALIFICATION TYPE		Certificate		I		II		III		IV		V		✓		Diploma		Bachelor	
		Bachelor Honours						Post Graduate Certificate						Post Graduate Diploma					
		Masters								Doctorate/ PhD									
RATIONALE AND PURPOSE OF THE QUALIFICATION																			
RATIONALE: The Botswana Vision 2036 states that development of the human capital and the informal sector and the micro and small enterprises (MSES) are essential in achieving the VISION 2036 pillars, Sustainable Economic Development and Human and Social Development. Although Botswana has been fortunate to experience unprecedented economic growth since independence, this has not generated enough jobs to reduce unemployment. The most severely hit group amongst the																			

unemployed is the youth, who account for about 51.7 % of the total unemployed, with the 15-19 age group most affected.

The Botswana Education and Training Sector Strategic Plan (ETSSP 2015-2020) marks a significant milestone in our collective efforts as a nation to bring about a more diversified, knowledge-based Economy. The ETSSP seeks to refocus our education and training towards fulfilment of social and economic aspirations identified in our Revised National Policy on Education (RNPE)1994, the National Development Plan 11, Vision 2036 and as well as the Millennium Development Goals.

The Human Resources Development Council (HRDC) Top Occupations in Demand document (2021) identified Bricklaying and Plastering as one of the Construction Sector occupations in high demand at a national level.

In Consultation with the Industry and relevant professional bodies

This curriculum emphasizes the complex outcomes of a learning process (i.e. knowledge, skills and attitudes to be applied by learners) in principle such a curriculum is learner-centred and adaptive to the changing needs of students, teachers and society. Education and training which aim to equip people with knowledge, skills and competences required in particular occupations or more broadly on the labour market. All qualifications frameworks provide a basis for improving the quality, accessibility, linkages and public or labour market recognition of qualifications within a country and internationally.

Therefore, this qualification intends to strengthen the match between construction qualification and Labour market requirements: Ensuring that education and training outputs are more closely aligned to socio-economic development needs of the country particularly in Bricklaying and Plastering.

PURPOSE: (itemise exit level outcomes)

The purpose of this qualification is to produce graduates with broad technical knowledge, skills and competence to:

1. Read and interpret construction plans and blueprints according to required standards
2. Apply principles of supervision on a construction site operation.
3. Produce and interpret building designs/drawings using AUTO-CAD software.
4. Apply the principles of masonry used in the construction industry.
5. Construct and repair superstructures according to job specifications.

BQA NCQF QUALIFICATION TEMPLATE

6. Assess the viability of a chosen venture and develop its business plan and implementation schedule for submission to potential financiers.

MINIMUM ENTRY REQUIREMENTS (including access and inclusion)

1. Certificate IV, NCQF LEVEL 4 (TVET/GE) or equivalent.
2. There will be provision for RPL and CAT for entry according to the ETP RPL and CAT policy

(Note: Please use Arial 11 font for completing the template)

SECTION B QUALIFICATION SPECIFICATION	
GRADUATE PROFILE (LEARNING OUTCOMES)	ASSESSMENT CRITERIA
1. Apply elements of drawings and figures using a software to produce a design.	1.1 Develop a portfolio of industry drawings in CAD 1.2 Evaluate software effectiveness in drawing appropriate scales on drawings 1.3 Create CAD drawings and 3D models using given specifications. 1.4 Create an efficient sketch using correct origin placement, geometric relations and symmetry 1.5 Select correct primary view and create a fully dimensioned print according to drafting standards and best practices.
2. Demonstrate the knowledge of superstructure processes as per building standards and procedures	2.1 Interpret working drawings 2.2 Estimate and cost materials and supplies 2.3 Set out superstructure elements 2.4 Construct superstructure walls 2.5 Construct reinforced concrete columns 2.6 Construct masonry walls with opening 2.7 Cast suspended wall with openings 2.8 Cast suspended floor slabs and beams

BQA NCQF QUALIFICATION TEMPLATE

3. Plan and prepare a construction of masonry work in accordance to job specifications	3.1 Read and interpret plans according to job specifications 3.2 Set out masonry structure as per job specification 3.3 Construct load bearing walls according to specifications 3.4 Finish mortar joints to meet the required standards
4. Develop knowledge of science of material and behaviour of various building materials used in construction	4.1 Apply knowledge on factors that affect human comfort 4.2 Understand how forces act on structures 4.3 Understand construction materials and the techniques used to prevent their deterioration.
5. Carry out finishing operations according to job specifications	5.1 Correct drawings and specifications have been identified in order to finish operations. 5.2 The structure jointed, pointed or bagged in according to finishing specifications. 5.3 Correct range of tools for desired component finish have been identified in order to finish operations. 5.4 Demonstrate knowledge and understanding of conducting bricklaying finishing operations.
6. Implement design, estimation of a building and prepare a plan to manage construction management	6.1 Estimate, cost and supervise a construction works 6.2 Carry out measurements of different items of works with correct units 6.3 Prepare bill of quantities and bill of payment for work carried out 6.4 Fix the rate of new items of construction works 6.5 Supervise the works to maintain quality control 6.6 Manage a small-scale construction project
7. Dismantle, demolish and cladding in the workplace	7.1 Interpret the given information relating to the work and resources when dismantling and / demolishing roofs and / cladding according to the requirements 7.2 Comply with relevant legislation dismantling and / demolishing roofs and / cladding according to the requirements

BQA NCQF QUALIFICATION TEMPLATE

	7.3 Maintain safe and healthy working practices in the workplace 7.4 Select the required quantity and quality of resources for the methods of work to be done in accordance to the given working instructions. 7.5 Minimise the risk of damage to the work and surrounding areas in accordance to safe working practices and organisational procedures.
8. Perform basic painting operation procedures and techniques to a chosen work	8.1 Adhere to health and safety regulations 8.2 Examine the surface to determine types of paint to be used. 8.3 Determine types of tools, equipment and materials required for the project based on the assessment done. 8.4 Prepare surfaces for the application of primer and paint by removing fittings. 8.5 Perform quality checks on the work done and make improvement as needed. 8.6 Store paints and ancillary materials in accordance with best practice principles and manufacturer's specification. 8.7 Clean tools and equipment and store in the appropriate places after use.
9. Carry out basic installation of electrical circuits in relation with construction works.	9.1 Examine the job specification to determine what is required 9.2 Select and use electrical wiring tools and equipment in according to job specification. 9.3 Use electrical cables in accordance with manufacturer specification. 9.4 Terminate cables in accordance with job instruction. 9.5 Connect circuits according to job instruction. 9.6 Use electrical and electronics components

BQA NCQF QUALIFICATION TEMPLATE

10. Autonomously assess the viability of a chosen venture and develop its business plan and implementation schedule for submission to potential financiers.	10.1 Identify and assess a venture of interest 10.2 Conduct a market survey to assess the viability of the project in its target area. 10.3 Develop a plan for the chosen venture including an overview of the business, operations, marketing, human resources and financial projections adequate for funders. 10.4 Schedule for implementation of the business plan in the form of a gantt chart (or any suitable presentation technique).

Note: Please use Arial 11 font for completing the template)

SECTION C	QUALIFICATION STRUCTURE				
COMPONENT	TITLE	Credits Per Relevant NCQF Level			Total Credits
		Level []	Level []	Level [5]	
FUNDAMENTAL COMPONENT Subjects/ Courses/ Modules/Units	Entrepreneurship II			11	11
CORE COMPONENT Subjects/Courses/ Modules/Units	Superstructure II			12	12
	Construction Management			12	12
	AutoCAD II			10	10
	Masonry Works			9	9
	Measurements and cost calculations II			6	6
	Construction Material			8	8
	Work Based learning/ industrial attachment			48	48

BQA NCQF QUALIFICATION TEMPLATE

STRANDS/ SPECIALIZATION	Subjects/ Courses/ Modules/Units	Credits Per Relevant NCQF Level			Total Credits
		Level []	Level []	Level [5]	
1.	N/A				
Electives	Basic application of painting			4	4
	Basic Electrical Circuits			4	4

BQA NCQF QUALIFICATION TEMPLATE

SUMMARY OF CREDIT DISTRIBUTION FOR EACH COMPONENT PER NCQF LEVEL

TOTAL CREDITS PER NCQF LEVEL

NCQF Level	Credit Value
<i>NCQF Level V</i>	<i>120</i>
TOTAL CREDITS	120

Rules of Combination:

(Please Indicate combinations for the different constituent components of the qualification)

The qualification is made up of core, fundamentals, electives and work based components

Candidates are required to achieve a minimum of **120** credits inclusive of **48** work based learning, fundamentals **11** credits, core **53** credits and 4 credits for elective. Learners choose one elective module worth 4 credits so as to attain a minimum of 120 credits for the qualification.

(Note: Please use Arial 11 font for completing the template)

ASSESSMENT ARRANGEMENTS

The weightings for the assessment will be as follows:

- a) Formative assessment

The weighting of formative assessment is 60% of the final assessment mark.

- b) Summative Assessment

The weighting of summative assessment is 40% of the final assessment mark.

MODERATION ARRANGEMENTS

Internal and external moderators perform assessments of the qualification. Both internal and external moderators are done in-line with the national assessment policy. Anyone moderating a learner against this qualification must be registered as a moderator with BQA.

RECOGNITION OF PRIOR LEARNING

There shall be provision for award of the qualification through Recognition of Prior Learning (RPL) in accordance with institutional policies in line with the national RPL policy.

CREDIT ACCUMULATION AND TRANSFER

Credits Accumulated and Transfer will be administered in line with the national and institutional policy and will be administered towards the award of qualification.

PROGRESSION PATHWAYS (LEARNING AND EMPLOYMENT)

Learning Pathways

Horizontal Articulation

Graduates of this qualification may consider pursuing related qualifications in the following:

- Certificate V in Architectural Draughting

Vertical Articulation

- Diploma in construction

Employment Pathways

Holders of this qualification can work as; but not limited to:

- Bricklayer and Plasterer
- Bricklayer and Plasterer supervisor

- Building Inspector

QUALIFICATION AWARD AND CERTIFICATION

Minimum standards of achievement for the award of the qualification

Candidates are required to achieve a minimum of 120 credits inclusive of 48 work-based learning, fundamentals 11 credits, core 53 credits and elective 4 credits of elective to be awarded Certificate V in Bricklaying and Plastering

Certification

Candidates meeting prescribed requirements will be awarded Certificate V in Bricklaying and Plastering with a transcript

SUMMARY OF REGIONAL AND INTERNATIONAL COMPARABILITY

Title of Qualification

The title for the developed qualification and those benchmarked from are all Certificate qualification hence they have similarities. The difference is that the developed qualification has plastering element as its essential skill that makes bricklayers to give a good finish to the building to produce quality work

NQF Level & Credit Value or Duration (where applicable)

The developed qualification is level 5 similarly to one of the benchmarked qualifications even though they differ with credit. The developed qualification marched with one of the benched marked qualifications whereas the difference is noticed with other benched marked qualifications.

Main Exit Outcome(s)

All the qualifications are similar as they impart knowledge, skills and competence in carpentry concepts.

Domains/Modules/Courses/Subjects covered (Fundamental, core, electives and work based learning)

Comparison was done and it indicates that all qualifications cover similar modules.

Assessment strategies and Weightings

BQA NCQF QUALIFICATION TEMPLATE

The assessment strategies are the same for both developed and benchmarked qualifications as they cover formative, summative and practical assessments.

Qualification rules and minimum Standards for the award of the qualification

The developed qualifications have fundamentals and core modules whereas bench marked have fundamentals, core and electives.

Comparability and articulation of the proposed qualification with the ones examined

The developed and benched marked qualifications allow learners to articulate horizontally and vertically. On successful completion of the qualifications the graduate can progress vertically to Diploma in Construction. For employment pathways graduates can be employed in Bricklaying and Plastering sector as Bricklayer, Self-employer ,Bricklayer and Plasterer supervisor, Building Inspector and for the developed qualification they can be employed as Construction Foreman, Carpenter, Building Insulation Installer, Plasterer and Bricklayer

REVIEW PERIOD

This qualification shall be reviewed every 5 years; however, a review may be undertaken as earlier as needed.

(Note: Please use Arial 11 font for completing the template)

For Official Use Only:

CODE (ID)			
REGISTRATION STATUS	BQA DECISION NO.	REGISTRATION START DATE	REGISTRATION END DATE
LAST DATE FOR ENROLMENT		LAST DATE FOR ACHIEVEMENT	