

BQA NCQF QUALIFICATION TEMPLATE

SECTION A: QUALIFICATION DETAILS															
QUALIFICATION DEVELOPER (S)			Madirelo Training and Testing Centre												
TITLE		Certificate IV in Carpentry and Joinery							NCQF LEVEL			4			
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															
<p>RATIONALE:</p> <p>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.</p> <p>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 fulfillment 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.</p>															

The Human Resources Development Council (HRDC) Top Occupations in Demand document (2021) identified Carpentry and Joinery 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-centered and adaptive to the changing needs of learners, 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 Carpentry and Joinery.

PURPOSE:

The purpose of the qualification is intended to produce graduates with broad knowledge skills and competences to:

1. Produce carpentry and joinery designs using AUTO-CAD software.
2. Fit internal and external fixtures in a building according to job specification.
3. Work at heights to perform Carpentry and joinery work in-line with the requirements.
4. Repair structural and other woodwork on work benches or construction site to meet job specification.
5. Apply practical entrepreneurial concepts, essential entrepreneurial qualities and current support structures for successful entrepreneurial undertakings.
6. Use ICT for information retrieval and processing as well as communication and collaboration with others.
7. Apply effective fundamental and problem-solving skills while performing assigned duties/tasks according to the set industry standards in an actual work environment.

MINIMUM ENTRY REQUIREMENTS (including access and inclusion)

Candidates who possess the following certificates may be considered

- Certificate III, NCQF Level 3 (TVET/GE) or equivalent.
- There will be provision for RPL and CAT for entry according to the ETPI RPL and CAT policy.

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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. Carry out installation of internal and external fixtures of a building		2.1 Examine the job specification to determine material and equipment to be used. 2.2 Perform cutting and joining techniques on component in accordance to specifications 2.3 Carry out inspection to ensure adherence to job specification. 2.4 Replace and repair fixtures according to manufacturer's specifications	
3. Perform scaffolding tasks effectively and safely in the workplace.		3.1 Interpret scaffold working drawings according to specifications 3.2 Determine the scaffold components and assembly on the inspected area.	

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	<p>3.3 Working at heights using range and suitable equipment and platforms to a safe working environment</p> <p>3.4 Carryout scaffolding maintenance and dismantling techniques according to safety procedures</p>
4. Maintain structural and non-structural carpentry work in the workplace	<p>4.1 Assess the work to be repaired to determine the material to be used.</p> <p>4.2 Select the required quantity and quantity of resources for the method of work.</p> <p>4.3 Perform woodworking techniques according to the job specification.</p> <p>4.4 Carry out maintenance by replacing and repairing furniture, fixtures and fittings.</p>
5. Estimate materials and labour costs to complete a carpentry and joinery work.	<p>5.1 Examine the work according to job specification</p> <p>5.2 Determine required resources needed to complete the job</p> <p>5.3 Estimate cost and quantity take offs for various construction tasks.</p> <p>5.4</p> <p>5.5 Work out quantities, rates and cost analysis of various carpentry activities</p> <p>5.6 Manage finances and estimate cost in aspects of construction projects.</p>
6. Apply broad practical entrepreneurial concepts, essential entrepreneurial qualities and current policies/support structures for entrepreneurial success in Botswana.	<p>6.1 Examine broad entrepreneurial concepts and contemporary issues that have an impact on present day entrepreneurial success.</p> <p>6.2 Conduct a self-assessment in line with identifying necessary qualities for successful entrepreneurship</p> <p>6.3 Identify business opportunities in a field of interest and select appropriate investment strategies to adopt, considering the associated risks.</p>

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	6.4 Compile documents required for an entrepreneur to establish a company and take advantage of available support structures
7. Apply Information and Communication Technology for efficient information retrieval, processing as well as communication and collaboration in the context of the carpentry and joinery industry	<p>7.1 Read and analyse data from a prepared database.</p> <p>7.2 Enter and manipulate data using ICT tools.</p> <p>7.3 Display data electronically through charts.</p> <p>7.4 Manipulate and present information through the selection of appropriate spreadsheet tools</p>
8. Apply effective fundamental and problem solving skills while performing assigned duties/tasks according to the set industry standards in an actual work environment.	<p>8.1 Communicate and negotiate with stakeholders to initiate an industrious work based learning experience</p> <p>8.2 Perform assigned vocation related tasks to the required standards</p> <p>8.3 Apply effective fundamental (core) skills throughout the duration of the work based learning program.</p> <p>8.4 Adhere to health and safety requirements at all times</p> <p>8.5 Demonstrate problem solving skills as and when problems are encountered during the work process</p> <p>8.6 Contribute effectively to team work initiatives within the work environment</p> <p>8.7 Evaluate the work based learning experience, to determine its benefits and or limitations.</p>

SECTION C	QUALIFICATION STRUCTURE		
	TITLE	Credits Per Relevant NCQF Level	Total Credits

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COMPONENT		Level [III]	Level [IV]	Level [V]	
FUNDAMENTAL COMPONENT <i>Subjects/ Courses/ Modules/Units</i>	Information Communication and Technology (ICT)		8		8
	Entrepreneurship		8		8
CORE COMPONENT <i>Subjects/Courses/ Modules/Units</i>	Auto CAD		15		15
	Internal and External fixtures		14		14
	Working at heights		14		14
	Structural and non-structural work		14		14
	Measurements and cost calculation		15		15
	Work based Learning		32		32
STRANDS/ SPECIALIZATION	<i>Subjects/ Courses/ Modules/Units</i>	Credits Per Relevant NCQF Level			Total Credits
		Level []	Level []	Level []	
	N/A				
Electives					

SUMMARY OF CREDIT DISTRIBUTION FOR EACH COMPONENT PER NCQF LEVEL	
TOTAL CREDITS PER NCQF LEVEL	
NCQF Level	Credit Value

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4	120
TOTAL CREDITS	120
Rules of Combination: (Please Indicate combinations for the different constituent components of the qualification)	
<p>The qualification is made up of fundamentals, core and electives components.</p> <p>Candidate are required to achieve a minimum of 120 credits for the qualification inclusive of 16 credits of fundamental units and 104core credits all at level 4. There are no electives.</p>	
ASSESSMENT ARRANGEMENTS	
<p>The weightings for the assessment will be as follows:</p> <ol style="list-style-type: none"> Formative assessment The weighting of formative assessment is 60% of the final assessment mark. Summative Assessment The weighting of summative assessment is 40% of the final assessment mark. 	
MODERATION ARRANGEMENTS	
<p>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 with BQA as a moderator.</p>	
RECOGNITION OF PRIOR LEARNING	
<p>There shall be provision for award of the qualification through Recognition of Prior Learning (RPL) in accordance with institutional policies in line with the ETP RPL policy.</p>	
CREDIT ACCUMULATION AND TRANSFER	
<p>Credits Accumulated and Transfer will be administered in line with the national and institutional policy and will be administered towards the award of qualification.</p>	
PROGRESSION PATHWAYS (LEARNING AND EMPLOYMENT)	
<p>Learning Pathways Horizontal Articulation (related qualifications of similar level that graduates may consider)</p>	

- Certificate IV in Furniture Design and Manufacturing

Vertical Articulation

- Certificate V in Carpentry & Joinery
- Certificate V in Cabinet Making
- Certificate V in Architectural Draughting

Employment Pathways

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

- Construction Carpenter
- Joiner
- Cabinet maker
- Furniture maker

QUALIFICATION AWARD AND CERTIFICATION

Minimum standards of achievement for the award of the qualification

A candidate is required to achieve the stipulated total of 120 credits inclusive of the 16 credits fundamental, 72 credits for core units and 32 credits for Work-Based Learning, to be awarded Certificate IV in Carpentry and Joinery.

Certification

Candidates meeting prescribed requirements will be awarded Certificate IV in Carpentry and Joinery with a transcript

SUMMARY OF REGIONAL AND INTERNATIONAL COMPARABILITY

Regional: Certificate: Carpenter (South Africa)

International: Certificate IV in Carpentry (Rwanda) and Certificate in Carpentry (New Zealand)

Title of Qualification

The titles for the developed qualification and those benchmarked from are all Certificate in carpentry qualifications hence they have similarities. The difference is that the developed qualification has joinery element as its essential skill that makes carpenters to handle fine joinery in addition to general carpentry.

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NQF Level

The developed qualification is level 4 similarly to the benchmarked qualifications.

Credits: This qualification is similar to the Rwanda qualification at 120 credits. The South African qualification has 360 credits while New Zealand has 320, this is because they includes modules from level 3. The comparison considered only level 4 modules since level 3 are done in the Certificate III qualification as a separate exit award.

Main Exit Outcome(s)

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

Domains/Modules/Courses/Subjects

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

Assessment strategies and Weightings

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

Comparability and articulation of the proposed qualification with the ones examined

On successful completion of the qualifications the graduate can progress vertically to Certificate V in Carpentry or Construction. For employment pathways graduates can be employed in Carpentry sector as Carpenter, Construction Foreman and for the developed qualification they can be employed as Joiners.

REVIEW PERIOD

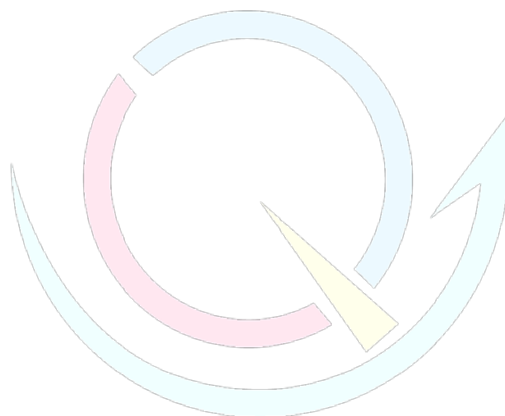
This qualification shall be reviewed every 5 years. However, a review might be undertaken earlier when need arises.

CODE (ID)			
REGISTRATION STATUS	BQA DECISION NO.	REGISTRATION START DATE	REGISTRATION END DATE

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LAST DATE FOR ENROLMENT		LAST DATE FOR ACHIEVEMENT	

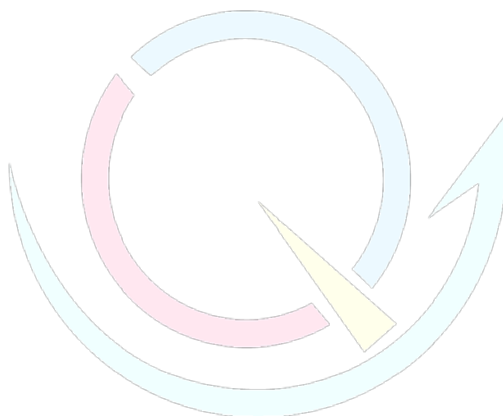
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