
	BQA NCQF QUALIFICATION TEMPLATE	Document No.	DNCQF.QIDD.GD02
		Issue No.	01
		Effective Date	04/02/2020

SECTION A: QUALIFICATION DETAILS													
QUALIFICATION DEVELOPER (S)		BA ISAGO University											
TITLE	Certificate V in Landscape Design Construction										NCQF LEVEL	5	
FIELD	Physical Planning and Construction			SUB-FIELD		Landscape Design Construction				CREDIT VALUE	132		
New Qualification						✓		Review of Existing Qualification					
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>With the growth in construction of homes, buildings, and other architectural developments, the need for landscape architects is forever increasing. Today, people spend considerable amount of time and money on visiting recreational spaces such as amusement parks, picnics spots, and conservation parks, places that are made attractive by landscape architects.</p> <p>According to the Human Research Development Council's, 'Top Occupations in High Demands report' (2016:16) landscaping and gardening has been highlighted as one of the top occupations and priority skills in Botswana. Moreover, the Human Research Development Council's report on 'Priority skills and Employment Trends' (2016:15) has identified Landscape Architect's as crucial element to the tourism sector through their understanding of Green Ecology, as well as their Creativity. It is for this reason that the proposed certificate in Landscape Design Construction has been designed to address a specific need in the physical planning industry. The Landscape Design Construction qualification is in alignment with the Vision 2036 Pillar 1 and the Education</p>													

	BQA NCQF QUALIFICATION TEMPLATE	Document No.	DNCQF.QIDD.GD02
		Issue No.	01
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and Training Sector Strategic Plan (ETSSP) 2015-2020, which aim to produce high quality outcome-based education training. According to the ETSSP, there is currently a mismatch between qualifications offered and the needs of the labour market. Therefore, the proposed qualification aims to produce competent graduates who would close this gap in the construction industry with relevant skills.

In a world that is currently faced with climate, environmental, and socio-economic issues, the Landscape Architecture profession offers a dynamic field with plenty of career opportunities for Batswana youth, who are currently faced with unemployment. The proposed one-year Certificate in Landscape Design Construction is designed to target individuals working in the landscape architecture industry with minimal or no qualifications. It also targets the high school leavers and the unemployed youth who have a passion for a career in landscape and can be trained to be future leaders in creating sustainable inclusive environments. This qualification also responds to a niche in the Botswana market, and will be the first of its kind. Furthermore, there are currently fewer institutions in Africa that offer professional Landscape Architects training. However, with the growing concerns on sustainable development issues worldwide, skills training and development of landscape architects on green engineering is crucial. "The growing demand for incorporating natural elements into man-made environments has led to increasing recognition of landscape architecture by other members of the building industry" (Foster,2010), Becoming Landscape Architect).


PURPOSE:

The purpose of the Certificate in Landscape Design Construction is to produce graduates with broad technical knowledge, skills and competences to:

- Develop and maintain landscape projects for residential and commercial settings.
- Construct functional and inclusive public spaces that addresses environmental and conservation needs
- Create artistic landscape design that addresses site conditions, environmental and green infrastructure planning.


ENTRY REQUIREMENTS (including access and inclusion)


- Applicants must have at least NCQF Level IV or equivalent with a pass in English Language.
- OR
- Candidates who do not meet the minimum academic qualifications stated above will be considered


	BQA NCQF QUALIFICATION TEMPLATE	Document No.	DNCQF.QIDD.GD02
		Issue No.	01
		Effective Date	04/02/2020

through Recognition of Prior Learning (RPL) process which shall be administered according to the National RPL Policy. There will also be provision for Credit Accumulation Transfer to the learner in a case they are transfer in from another institution as per National Policy on CAT


SECTION B QUALIFICATION SPECIFICATION	
GRADUATE PROFILE (LEARNING OUTCOMES)	ASSESSMENT CRITERIA
1. Design basic drawings for different landscape architectural projects using a range of design software's.	<p>1.1 Determine landscape drawing specifications, procedures, and techniques for construction of landscape design projects.</p> <p>1.2 Produce a basic site analysis report including a measured drawing of existing landscapes.</p> <p>1.3 Create simple sketches and drawings appropriate for site analysis.</p> <p>1.4 Utilise basic software programme, testing graphic communication and techniques, to develop and communicate simple landscape drawings.</p> <p>1.5 Develop a creative portfolio documenting a range of materials and structures commonly used in landscape architecture projects.</p>
2. Demonstrate knowledge of the principles and practices of hard and soft landscape materials used in construction projects.	<p>2.1 Determine hard and soft materials and sculptural landform qualities.</p> <p>2.2 Identify soil conditions and composition appropriate for good plant growth.</p> <p>2.3 Determine earthworks required for a landscape design project.</p> <p>2.4 Identify and mitigate bad construction work.</p>

	BQA NCQF QUALIFICATION TEMPLATE	Document No.	DNCQF.QIDD.GD02
		Issue No.	01
		Effective Date	04/02/2020

	<p>2.5 Outline the plant and building material utilised for conventional and sustainable landscapes.</p> <p>2.6 Identify plants, the binomial system for naming plants and the broad categories of plant materials</p> <p>2.7 Apply integrated pest management approaches for maintenance of landscapes.</p>
<p>3. Construct landscape projects for residential, commercial and public open spaces</p> 	<p>3.1 Assemble required tools and equipment for specific projects</p> <p>3.2 Design a proposal that addresses social, ecological, cultural, functional and aesthetic requirements of the site and project brief.</p> <p>3.3 Select appropriate materials in response to both functional and aesthetic requirements</p> <p>3.4 Prepare basic cost estimations for materials, construction, and maintenance of a landscape project.</p> <p>3.5 Inspect the relevant area as required to take and record measurements</p> <p>3.6 Determine the occupational health and safety requirements applicable to the worksite.</p> <p>3.7 Construct a small garden design to include a range of landscape features</p> <p>3.8 Maintain good clientele relations in the provision of landscape projects in construction and maintenance.</p> <p>3.9 Adhere to good working relations with other stakeholders in the landscape profession.</p>


 BOTSWANA Qualifications Authority	BQA NCQF QUALIFICATION TEMPLATE	Document No.	DNCQF.QIDD.GD02
		Issue No.	01
		Effective Date	04/02/2020

SECTION C	QUALIFICATION STRUCTURE				
COMPONENT	TITLE	Credits Per Relevant NCQF Level			Total (Per Subject/ Course/ Module/ Units)
		Level [5]	Level [6]	Level [7]	
FUNDAMENTAL COMPONENT <i>Subjects/ Courses/ Modules/Units</i>	Computer Literacy 1: Introduction to Computer and Design	12			12
	Construction Health Safety, Maintenance and Management	10			10
	Budgeting and Managing Costs- Quotations		10		10
	Entrepreneurship	10			10
CORE COMPONENT <i>Subjects/Courses/ Modules/Units</i>	Design studio 1: Introduction to Landscape Design	20			20
	Site Survey, Analysis and Assessment		10		10
	Landscape Material 1: (Plants and Construction)	10			10
	Landscape construction Details and Methods	10			10
	Landscape Material 2: (Hard Landscaping)	10			10

	BQA NCQF QUALIFICATION TEMPLATE	Document No.	DNCQF.QIDD.GD02
		Issue No.	01
		Effective Date	04/02/2020

	Design Studio 2: Landscape Design Construction	20			20
	Context and History: The Garden		10		10
ELECTIVE/ OPTIONAL COMPONENT <i>Subjects/Courses/ Modules/Units</i>					

SUMMARY OF CREDIT DISTRIBUTION FOR EACH COMPONENT PER NCQF LEVEL	
TOTAL CREDITS PER NCQF LEVEL	
NCQF Level	Credit Value
5	102
6	30
TOTAL CREDITS	132
Rules of Combination: (Please Indicate combinations for the different constituent components of the qualification)	
The credit combination is made up of 42 credits from the fundamental component and 90 credits form the core component.	

	BQA NCQF QUALIFICATION TEMPLATE	Document No.	DNCQF.QIDD.GD02
		Issue No.	01
		Effective Date	04/02/2020

ASSESSMENT ARRANGEMENTS

All assessments which are leading to the award of the qualification should be based on learning outcomes and associated assessment criteria. Assessment will be conducted by Assessors who have been registered with Botswana Qualifications Authority (BQA). The assessments will be as follows:

i. Formative Assessment

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

ii. Summative Assessment

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

MODERATION ARRANGEMENTS

Assessments will be internally and externally moderated by BQA registered and accredited moderators in line with approved moderation policies.

RECOGNITION OF PRIOR LEARNING

Recognition of Prior Learning (RPL) will be applicable for consideration for award in this qualification.

CREDIT ACCUMULATION AND TRANSFER

Credit Accumulation Transfer (CAT) will be applicable for consideration for award in this qualification.


PROGRESSION PATHWAYS (LEARNING AND EMPLOYMENT)

Learning Pathways

Horizontal Articulation

- Certificate in Construction Technology (NQF Level 5)
- Certificate in Horticulture (NQF Level 5)
- Certificate in Environmental Health and safety (NQF Level 5)

Vertical Articulation

	BQA NCQF QUALIFICATION TEMPLATE	Document No.	DNCQF.QIDD.GD02
		Issue No.	01
		Effective Date	04/02/2020

- Diploma in Landscape Design
- Diploma in Real Estate and Construction
- Diploma in Horticulture
- Diploma in Environmental Health and Safety

Employment Pathways

- Construction Foreman
- Garden Designer
- Foreman (Gardener)
- Landscape Contractor
- Park Assistant

QUALIFICATION AWARD AND CERTIFICATION


To be eligible for the award of the Certificate V in Landscape Design Construction candidate should have obtained a minimum of 132 credits. A certificate will be issued to learners who are awarded the qualification.

REGIONAL AND INTERNATIONAL COMPARABILITY

This qualification is benchmarked with courses offered by other reputable academic and professional institutions. The Certificate V in Landscape Design Construction compares well with the following:

1. Landscape Design and Horticulture, Lifestyle College, South Africa

Lifestyle college offers fulltime and part time courses in landscape design and horticulture. The courses have been designed for individuals who are hobbyists, keen gardeners and students looking for a career in Landscape Design. The landscape design and horticulture courses are offered are practical oriented where learners are linked to community projects to gain practical experience. It is important to note that, even though lifestyle college is pitched to accommodate limited number of learners, however, the qualification is comparable in terms of the vision, scope and depth, which align well with the learning outcomes of the proposed course.

	BQA NCQF QUALIFICATION TEMPLATE	Document No.	DNCQF.QIDD.GD02
		Issue No.	01
		Effective Date	04/02/2020

2. Intermediate Landscape Design & Construction, Merrit College, United State of America


The Intermediate Landscape Design & Construction certificate qualification trains students to work in the field of landscape design and build environment. It covers studies in design, construction, plant identification, and basic horticulture topics that enable students to obtain employment in the fields. It also provides foundational training towards becoming licensed landscape contractors and related specialties.

3. Certificate in Horticulture with Strands in Landscape Construction -Wintec Institute of Technology-New Zealand

Candidates pursuing this qualification learn the introductory skills of the landscape construction trade, gaining confidence in using building tools, and techniques on how to build and make landscape elements. Students also are taught about planting, laying lawns and maintenance of landscapes. The qualification is very practical, where students get to work on real landscape projects in the community, providing them with experience in setting out, woodworking, laying concrete, and paving with drainage. They are also taught how to read and draw construction plans, measure, and survey sites as well as being taught essential health and safety skills required in the industry. This qualification can lead to further studies towards other related fields as well as progressing to further studies in diploma in Landscape design. The qualification is open to individual who want to study and have a passion for the landscape industry.

It is important to note that certificate courses in Landscape architecture/design are offered by several countries internationally. However, most universities and colleges offer the qualification through distance learning and/or on a part time basis. The three courses described above offer both online and classroom learning.

The proposed certificate in Landscape Design Construction is comparable with the three selected courses described above with regards to the content material as well as the learners', entrance requirements and exit outcomes. However, the above mentioned courses are geared more towards the horticulture sector, with a focus on residential landscape construction, and excluding public landscape spaces construction, whereas the proposed qualification presents a more holistic scope and depth of the landscape construction in both residential and public space landscape construction. The proposed certificate qualification is also pitched at a similar level to the full time version of Landscape Design and Horticulture course offered by the Lifestyle

	BQA NCQF QUALIFICATION TEMPLATE	Document No.	DNCQF.QIDD.GD02
		Issue No.	01
		Effective Date	04/02/2020

College, South Africa, hence, at Botswana Qualification Framework (BQF) level 5, proposed for 12 months duration, of which, is equivalent to the South African National Qualification Framework (NQF level 5), also offered over a 12 months period. On the other hand, the Certificate in Horticulture (New Zealand) and Intermediate Landscape Design & Construction (United States) tend to differ slightly, with course durations ranging from six to eight month periods.

REVIEW PERIOD

This qualification will be reviewed every 5 years or as need arises.