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SECTION A: QUALIFICATION DETAILS														
QUALIFICATION DEVELOPER (S)		BA ISAGO University												
TITLE	Diploma in Landscape Design										NCQF LEVEL	6		
FIELD	Physical Planning and Construction			SUB-FIELD		Architecture				CREDIT VALUE	360			
New Qualification						<input checked="" type="checkbox"/>		Review of Existing Qualification						
SUB-FRAMEWORK		General Education			<input type="checkbox"/>		TVET			<input type="checkbox"/>		Higher Education		<input checked="" type="checkbox"/>
QUALIFICATION TYPE	Certificate	I	II	III	IV	V	Diploma	<input checked="" type="checkbox"/>	Bachelor					
	Bachelor Honours			Post Graduate Certificate				Post Graduate Diploma						
	Masters				Doctorate/ PhD									
RATIONALE AND PURPOSE OF THE QUALIFICATION														
<p>RATIONALE:</p> <p>According to the Human Resource 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 Resource Development Council's report on 'Priority skills and Employment Trends' (2016:15) has identified Landscape Architect's as an area that greatly contributes to the tourism sector through understanding of Green Ecology, as well as creativity.</p> <p>The Education and Training Sector Strategic Plan (ETS2015-2020) shows that, there is a mismatch between qualifications currently offered and the needs of the labour market. This qualification, therefore, aims to close this gap by producing competent graduates with relevant green infrastructure planning skills who would fill the gap in the industry. This qualification also responds to the green infrastructure planning niche in the Botswana</p>														

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market, and will be the first landscape architecture qualification to be offered at this level. Furthermore, there are currently fewer institutions in Africa that offer professional Landscape Architecture training.

PURPOSE:


The purpose of the Diploma in Landscape Design is to produce graduates with advanced knowledge, skills and competences to be able to:


- Assess landscape sites and make recommendations.
- Design and implement landscape construction plans.
- Manage sustainable and eco-friendly landscapes.
- Prepare estimates, quotes and tenders for landscape projects.


ENTRY REQUIREMENTS (including access and inclusion)

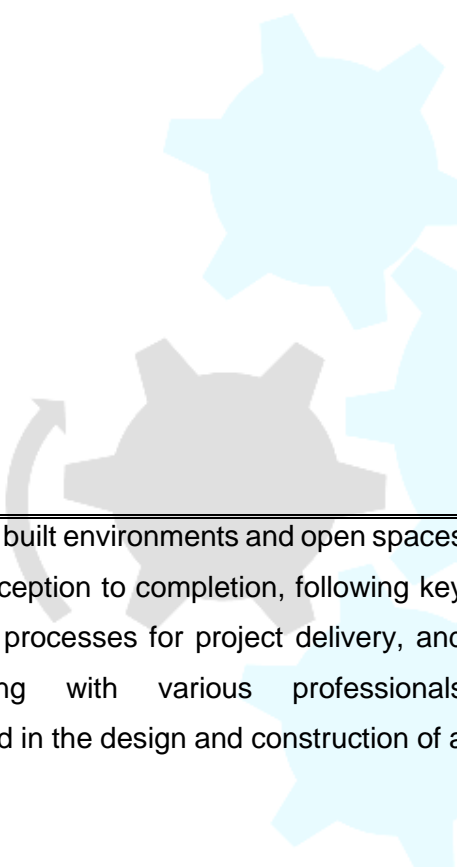
- Applicants must have at least NCQF Level 4 or equivalent, including a pass in any of the following subjects: Art, Design and Technology, Science, Agriculture, and Geography.
- OR
- Candidates who do not meet the minimum academic qualifications stated above will be considered through Recognition of 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. Produce a detailed site analysis of a landscape that includes the cultural, social	1.1 Determine how the features of a site provide opportunities and constraints to the use of the land. 1.2 Conduct site and user surveys analysis.

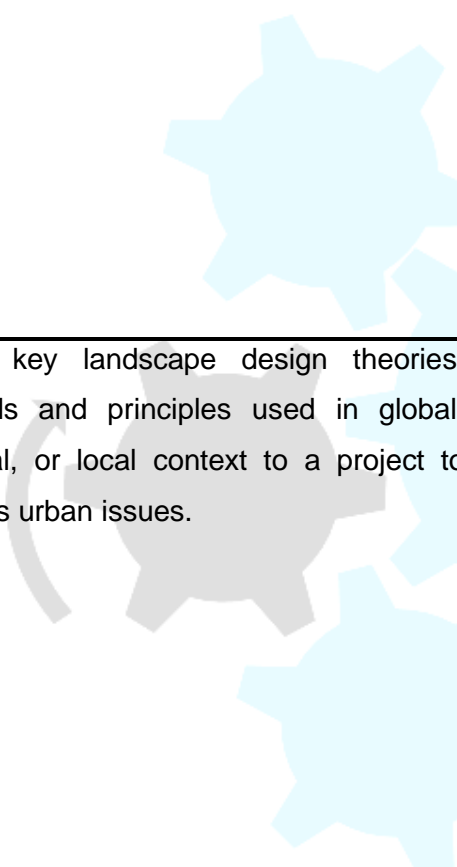
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<p>and aesthetic qualities to provide for its character and needs of the users.</p> 	<p>1.3 Conduct site planning and design based on the principles of sustainable design.</p> <p>1.4 Illustrate through a drawing, the use of scale and composition to produce a clear landscape design plan.</p> <p>1.5 Produce a landscape architectural drawing addressing the character of the site and the needs of the user.</p> <p>1.6 Design proposal that successfully responds to current and future characteristics of a site.</p> <p>1.7 Apply impact assessment and landscape management techniques in assuring sustainable landscape conservation and development.</p> <p>1.8 Evaluate consequences of design solutions, e.g. user, economics, maintenance, ecological</p>
<p>2. Utilise AutoCAD software, to produce drawings showing appropriate landscape graphics and techniques for council submission.</p>	<p>2.1 Create sketches by hand and transform them into AutoCAD drawings for the initial conceptual drawing of a project.</p> <p>2.2 Produce two-dimensional (2D) computer aided drawings (CAD) and three dimensional (3D) Sketch up drawings for a landscape project using a variety of graphical media, both non-digital and digital platforms.</p> <p>2.3 Develop various detailed technical construction drawings of a landscape project.</p> <p>2.4 Generate designs, solutions and strategies with regard to environmental, cultural and social variables, in outcomes community relevant and appropriate.</p> <p>2.5 Interpret technical diagrams and design drawings.</p>
<p>3. Implement principles and practices of sustainable landscape maintenance and management.</p>	<p>3.1 Identify various hard and soft landscape materials and prepare a bill of quantity for a project.</p> <p>3.1 Compile a portfolio using pictures with specifications documenting a range of both sustainable and</p>

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	<p>conventional landscape materials and structures commonly used in landscape projects.</p> <p>3.2 Identify soil conditions and composition appropriate for good plant growth.</p> <p>3.3 Develop earthworks specifications required for a landscape design project.</p> <p>3.4 Develop and implement strategies to manage plant pests and disorders in an environmentally safe and sustainable manner.</p> <p>3.5 Apply integrated pest management approaches for maintenance of landscapes.</p>
	<p>4. Design built environments and open spaces from inception to completion, following key design processes for project delivery, and engaging with various professionals involved in the design and construction of a project.</p> <p>4.1 Produce detailed design proposals demonstrating how soft and hard elements relate to design form and conceptual narratives.</p> <p>4.2 Utilise earthworks and soil preparation techniques used in landscaping.</p> <p>4.3 Apply a range of landscape construction techniques including walls, rockeries, paths, water gardens, paving and drainage etc.</p> <p>4.4 Compare and select different landscape materials with respect to their quality, cost, availability and application in garden construction.</p> <p>4.5 Prepare cost estimations for materials, construction, and, maintenance of a landscape project.</p> <p>4.6 Determine occupational health and safety requirements for implementation of a landscape project.</p> <p>4.7 Propose practical solutions to the problems posed by sloping sites including those of access, retaining structures and earthworks.</p>

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	<p>4.8 Construct and install landscape projects that meet the needs of the planned users</p> <p>4.9 Prepare and install landscape hardscape features including concrete, paver patios, walkways, garden retaining walls, wood decks etc.</p> <p>4.10 Deliver landscape gardening projects within agreed timescales and budgets</p> <p>4.11 Develop a detailed maintenance program for a project.</p>
	<p>5. Apply key landscape design theories, methods and principles used in global, regional, or local context to a project to address urban issues.</p> <p>5.1 Analyse urban environments to identify opportunities to promote more sustainable urban habitats.</p> <p>5.2 Develop strategic proposals for the implementation of a multifunctional green infrastructure.</p> <p>5.3 Apply innovative design methods to manipulate landscape elements in order to create a range of different spatial experiences.</p> <p>5.4 Evaluate urban designs with a focus on sustainability and long-term landscape performance.</p> <p>5.5 Propose ideas for landscape design project in consideration to the social, technical and environmental regulations and practices</p> <p>5.6 Analyse the environmental consequence of material selection and design detailing.</p>

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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>	Introduction to Computer & Drawing software's		10		10
	Drawing Graphics Programmes		10		10
	Design and Portfolio Presentation		10		10
	Budgeting and Managing Costs 1: Quotations		10		10
	Entrepreneurship		10		10
	Environmental Laws in Botswana		10		10
	Research Methods: Introduction to Planning Research		10		10
	Planning Regulations in Botswana		10		10
	PBuilding Standards in Botswana		10		10


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	Construction Health Safety, Maintenance and Management	10			10
CORE COMPONENT Subjects/Courses/ Modules/Units	Landscape Design Studio 1 Introduction to Design: Residential		20		20
	Landscape Design Studio 2 Parks and Public Spaces		20		20
	Landscape Design Studio3: Internship		60		60
	Landscape Design Studio 4: Studio Research Project		20		20
	Introduction to History of Landscape Architecture		10		10
	Fundamentals of Landscape Design Process, Principles and Elements		10		10
	People, Plants and Landscape Design		10		10
	Introduction to Sustainable Landscapes		10		10
	Introduction to Landscape Design Drawing Graphics		10		10
	Reading the Landscape (Site Analysis and Understanding Scale)	20			20
	Plant Massing and Design Composition (Plants &		10		10

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	Constructions)				
	Landscape Construction Details and Methods		20		20
	International Precedent Studies		10		10
	Art, Culture and Conceptual Design Development			10	10
	Landscape Material 2 (Plants and Construction)	10			10
	Landscape Material 3 (Hard Landscaping)	10			10
ELECTIVE/ OPTIONAL COMPONENT <i>Subjects/Courses/ Modules/Units</i>	N/A				

SUMMARY OF CREDIT DISTRIBUTION FOR EACH COMPONENT PER NCQF LEVEL	
TOTAL CREDITS PER NCQF LEVEL	
NCQF Level	Credit Value
Level 5	50
Level 6	300
Level 7	10
TOTAL CREDITS	360
Rules of Combination: (Please Indicate combinations for the different constituent components of the qualification)	

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The credit distribution is made up of 100 credits from the fundamental component and 260 credits from the core component.

ASSESSMENT ARRANGEMENTS

All assessments 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 and accredited with Botswana Qualifications Authority (BQA). The assessment 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

There will be provision for internal and external moderation, conducted by Moderators registered and accredited with Botswana Qualifications Authority (BQA).

RECOGNITION OF PRIOR LEARNING

Recognition of Prior Learning (RPL) will be applicable for consideration for award in this qualification, in accordance with the institutional and national policies on RPL.

CREDIT ACCUMULATION AND TRANSFER

Credit Accumulation Transfer (CAT) will be applicable for consideration for award in this qualification, in accordance with the institutional and national policies on CAT.

PROGRESSION PATHWAYS (LEARNING AND EMPLOYMENT)

Learning Pathways

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Horizontal Articulation

- Diploma in Construction Technology (NCQF Level 6)
- Diploma in Environmental Physical planning (NCQF Level 6)
- Diploma in Horticulture (NCQF Level 6)
- Diploma in Ecological design (NCQF Level 6)
- Diploma in Real Estate (NCQF Level 6)

Vertical Articulation

- Bachelor of Arts in Landscape Architecture (NCQF Level 7)
- Bachelor of Science in Horticulture (NCQF Level 7)
- Bachelor of Science in Environmental Physical Planning (NCQF Level 7)

Employment Pathways


- Landscape Designer
- Parks and Gardens Manager
- Sports Turf Manager
- Grounds Supervisor
- Landscaping Assistant
- Park and Gardens Assistant

QUALIFICATION AWARD AND CERTIFICATION

To be eligible for the award of the Diploma in Landscape Design, learners should have obtained a minimum of 360 credits. A certificate will be issued to learners who are awarded the qualification.

REGIONAL AND INTERNATIONAL COMPARABILITY

A comparative analysis has been done against qualifications offered by reputable entities within the region and internationally in relation to graduate profiling, scope and depth of content, to ascertain regional and international comparability and articulation of the proposed qualification. The aforementioned proposed qualification was benchmarked with the following qualifications:

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1. Diploma in Landscape Technology -Tshwane University of Technology (South Africa)
2. Diploma in Landscape Architecture – Infrastructure University Kuala Lumpur (Malaysia)

The above-mentioned qualifications follow similar structures and standards to the proposed one. The exit-level outcomes cover similar scope and depth and are aligned to exit-level descriptors typical of this level. However, what sets the qualifications apart is the credit load and duration of study, where the proposed qualification and the Tshwane University of Technology's qualification have 360 credits each, whereas the qualification for Infrastructure University Kuala Lumpur has 94 credits. The 94 credits however compare well with the 360 credits as they convert to 90 credits in accordance with the Malaysian Qualifications Framework, MQF, credit system. The MQF qualification runs for a duration of 2.5 years as opposed to the proposed and South African qualifications which run for duration of 3 years.

REVIEW PERIOD

This qualification will be reviewed every 5 years.