

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

SECTION A: QUALIFICATION DETAILS														
QUALIFICATION DEVELOPER (S)				Limkokwing University of Creative Technology										
TITLE		Bachelor of Arts in Interior Architecture								NCQF LEVEL		7		
FIELD		Physical Planning and Construction			SUB-FIELD		Architecture and Town Planning			CREDIT VALUE		480		
New Qualification					√		Review of Existing Qualification							
SUB-FRAMEWORK			General Education					TVET			√		Higher Education	
QUALIFICATION TYPE		Certificate	I	II	III	I	V		Diploma		Bachelor	√		
		Bachelor Honours		Post Graduate Certificate					Post Graduate Diploma					
		Masters						Doctorate/ PhD						
RATIONALE AND PURPOSE OF THE QUALIFICATION														
RATIONALE In a developing economy such as Botswana's, interior architecture is critical. It supplies the economy with the Interior Designers who are needed in numbers. The field of Physical Planning and Construction is a broad discipline that demands availability of personnel with several skills for any market to be adequately serviced. These range from designers, technologists, and draught persons. Consultations with industry identified a gap that exists in Botswana for Interior Designers competent to work alongside professional architects in the process of designing and production of design drawings, among others. The qualification, Bachelor of Arts in Interior Architecture, is aimed at closing the gap between the design stage (mainly done by the professional architect) and the delivery of the finished working drawings to the client or their representative (done by interior architectures).														

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The National Development Plan, 11, (NDP 11), the Government of Botswana emphasizes the need for the development of an Infrastructure Master Plan. Under this plan Government underscores the importance of maintenance and upgrading of existing infrastructure assets. The skills developed by this qualification will strongly contribute to the achievement of Government's goals. The plan (p. 99) enlists the various facilities Government intend to upgrade and improve during this economic development plan. These include continuation of the construction of primary school facilities under the "Primary School Facilities Backlog Eradication Project in order to improve the learning and teaching environment in primary schools across the country". This qualification is designed to deliberately resource such national projects with skilled human resources to help the Government of Botswana achieve its national aspirations. According to the government's plan, "During the NDP 11 new facilities will be constructed that have the potential to improve and stimulate economic growth, including the local economy" (NDP 11 Volume 1, p110). Skilled Interior Designers are needed if the Government goals stated above are to be achieved.

The Human Resource Development Council (HRDC) Sector Committee report (2016, p. 18) Interior Designers and Architects appear in the "Top 20 Occupations in High Demand" list. The nature of interior designing work needs at least two or three, sometimes even more Interior Designers, depending on the scope of the project, for detailing and modeling the projects. Thus, the need for Interior Designers is evident through these Government National Development Plans and HRDC Sector Committee reports.

PURPOSE:

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

- Demonstrate creativity in areas of construction methods, architectural design, and preparation of architectural drawings.
- Design fundamentals for production of construction drawings using CAD graphic standards.
- Formulate interior architecture projects within the clients' budget and be able to negotiate project fees.
- Implement drawing graphic standards and code requirements into space planning for Interior Architecture.
- Identify essential driving forces of successful new venture creation in Interior Architecture.

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ENTRY REQUIREMENTS (including access and inclusion)

The entry requirements for the qualification shall be:

- Certificate IV, NCQF level 4 or equivalent with passes in English, Mathematics, Art and Design and Design & Technology.
- Recognition of Prior Learning (RPL) and Credit Accumulation and Transfer, CAT, in line with National RPL and CAT policy shall also be used to admit prospective students.

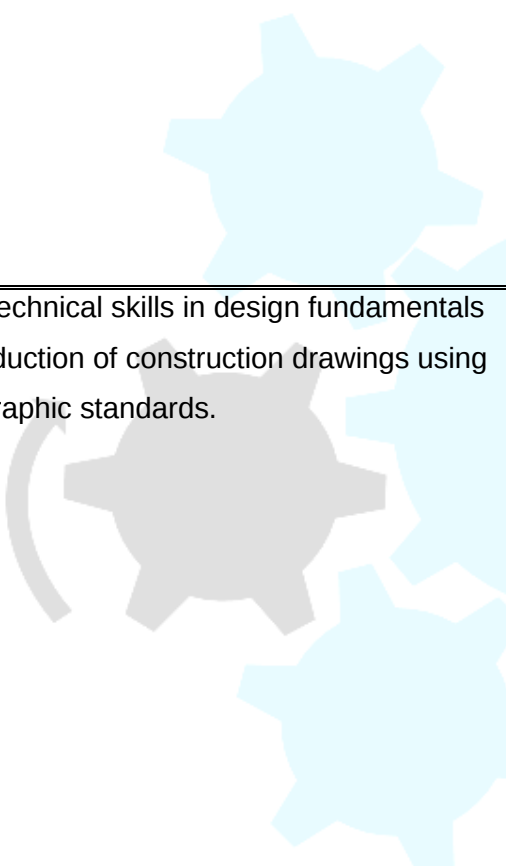
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SECTION B QUALIFICATION SPECIFICATION	
GRADUATE PROFILE (LEARNING OUTCOMES)	ASSESSMENT CRITERIA
1.1 Apply advanced technical knowledge of building materials and finishes for buildings. 	1.1.1 Specify appropriate building materials and finishes for a specific structure or space. 1.1.2 Prescribe alternative building materials and finishes for a specific structure and space. 1.1.3 Analyse the effects of the applying different building materials and finishes to the character of a structure or space. 1.1.4 Apply critical thinking skills in formulating building solutions in various situations. 1.1.5 Identify standards used to determine code compliance for interior furnishings and finishes. 1.1.6 Identify building materials and finishes safe for the environment and health and welfare of public. 1.1.7 Analyse finishing materials and products taking into consideration functional, aesthetic and maintenance needs. 1.1.8 Estimate material quantities for a construction project 1.1.9 Select and source materials used in the construction of interior spaces e.g., fittings, furniture, lighting, finishes, decoration, and dressing, and provide samples for clients
1.2 Conduct a feasibility and environmental impacts assessment (EIA) of a proposed design and building project competently.	1.1.1 Initiate a systematic site research or feasibility study process for the purpose of informing site

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	decision making before implementation of a building project. 1.1.2 Analyse site factors that influence the design solution. 1.1.3 Conduct precedent studies to compare and to apply information collected from similar situations 1.1.4 Communicate information gathered from site to various building teams using appropriate written and graphical techniques. 1.1.5 Interpret gathered information and effectively communicate in written, electronic, and oral forms to the stakeholders in briefings and meetings. 1.1.6 Propose practical and sustainable solutions to mitigate the environmental effects of a project 1.1.7 Apply scientific solutions for sustainable and green-building designs 1.1.8 Conduct effective presentations to stakeholders for various purposes.
1.2 Demonstrate knowledge and creativity in areas of construction methods, architectural design, and preparation of architectural drawings.	1.2.1 Assess the suitability of construction methods for given building types 1.2.2 Select appropriate construction methods for a small, medium to large scope of work. 1.2.3 Describe in detail the construction process for small to medium projects 1.2.4 Examine possible construction methods for medium and large buildings 1.2.5 Develop the design and show the influence of the concept to the proposed solution

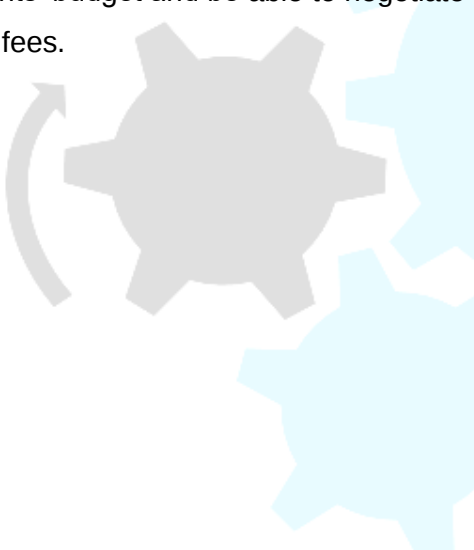
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	1.2.6 Display and communicate using the right techniques, the relationship between the design and site.
	1.2.7 Prepare material specifications for construction purposes.
	1.2.8 Prepare architectural working drawings for a wide range of building types
1.4 Apply technical skills in design fundamentals for production of construction drawings using CAD graphic standards.	1.4.1 Employ digital tools to produce construction drawings. 1.4.2 Use the CAD system to generate different aspects of the building system components in 2D and 3D projections 1.4.3 Develop three-dimensional models to create photorealistic renderings and flythroughs. 1.4.4 Utilize CAD software to create models. 1.4.5 Light three-dimensional interior spaces including furniture, lighting, and background. 1.4.6 Texture and create scenes in three-dimensional environments. 1.4.7 Evaluate software for effectiveness in drawing appropriate models and environments for rendering. 1.4.8 Design portfolios reflecting three-dimensional modelling skills
1.5 Apply fundamentals of building services in interior architecture drawing.	1.5.1 Specify the appropriate services for a specified building or space, e.g., water, electricity, fire, drainage etc. 1.5.2 Specify the functional requirements for every service needed in a building.

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	1.5.3 Incorporate building services (water, electricity, fire services) within the design process
1.6 Demonstrate knowledge of the evolution of building techniques, technologies and history of buildings and materials. 	1.6.1 Trace the evolution and the movements of building techniques up to present. 1.6.2 Discuss the impact of advances in technology on architecture. 1.6.3 Relate the development of building techniques over the years to peoples' lifestyles and needs. 1.6.4 Select appropriate building techniques for a specified project. 1.6.5 Predict future trends regarding building techniques using yesterday's and today's experience. 1.6.6 Analyse architectural and cultural movements from the ancient civilization to modern times. 1.6.7 Compare and contrast different architecture philosophies from two or more systems from past to present. 1.6.8 Examine how buildings are shaped by cultural ideas. 1.6.9 Interpret the vocabulary architects use to communicate cultural norms of behavior and personal preferences. 1.6.10 Produce drawings that reflect architecture as a vital expression of human values and cultural behavioural systems. 1.6.11 Critique the various historical, social, cultural, technological, and philosophical influences on architectural design.

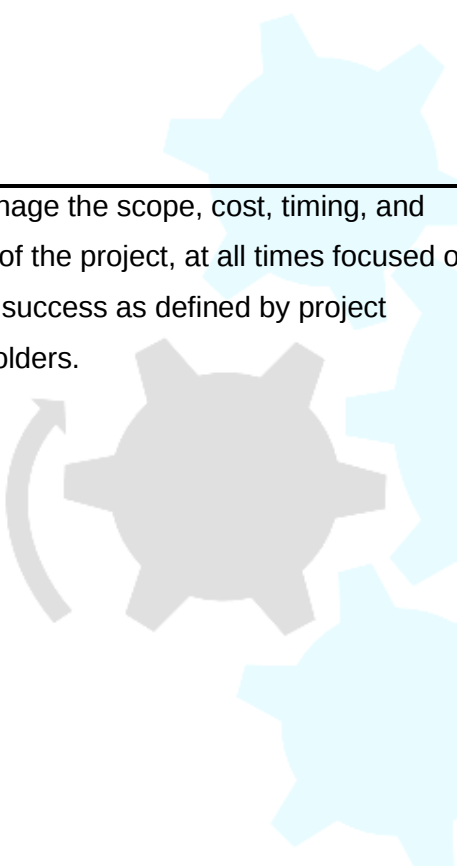
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1.7 Communicate effectively in a team environment. 	1.7.1 Utilize presentation skills as a tool for effective communication. 1.7.2 Present portfolio file professionally according to the industry practice. 1.7.3 Communicate effectively with all stakeholders verbally in writing and electronically
1.8 Formulate interior architecture projects within the clients' budget and be able to negotiate project fees. 	1.8.1 Estimate the quantities and cost of interior furnishings, finishing materials and installation. 1.8.2 Identify legal issues that impact an interior architect. 1.8.3 Generate client records, orders, and correspondence. 1.8.4 Analyze and calculate methods of compensation. 1.8.5 Develop a client budget and plan in response to budgetary constraints. 1.8.6 Apply ethical practices required of a professional interior designer. 1.8.7 Develop a business plan for interior architecture project.
1.9 Develop design concepts for kitchen and bathroom spaces and establish final briefs in relation to clients' needs and the needs of the people using the building.	1.9.1 Design kitchen and bathroom spaces using a concept as the focus of design decisions. 1.9.2 Design kitchen and bathroom spaces using universal design. 1.9.3 Produce necessary project documentation. 1.9.4 Present solutions for projects visually and verbally. 1.9.5 Develop construction details for projects. 1.9.6 Determine proper appliance placement. 1.9.7 Select appropriate materials, equipment, and fixtures.

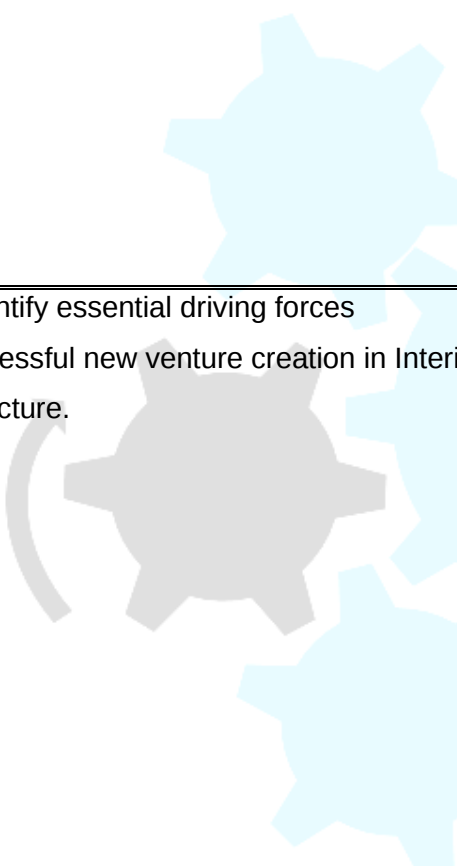
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1.10 Apply lighting and acoustics principles in the design of a luminaire 	1.10.1 Apply strategies related to the design of interiors. 1.10.2 Produce drawing in various standards and conventions used in lighting for interior architecture. 1.10.3 Apply conventions used in acoustics for interior design. 1.10.4 Create a lighting plan. 1.10.5 Utilize lighting design tools to effectively communicate in the design and construction fields. 1.10.6 Create and apply design concepts using lighting. 1.10.7 Analyse lighting applications used in architecture and design
1.11 Implement drawing graphic standards and code requirements into space planning for Interior Architecture.	1.11.1 Evaluate user needs and wants to develop appropriate space plans. 1.11.2 Explain interior spaces based on end user needs and local authority requirements. 1.11.3 Plan adjacencies and describe how one space relates to another. 1.11.4 Develop traffic flow, workflow, or paper flow through an interior space to suit user need. 1.11.5 Construct matrixes, schematic diagrams, and study models to illustrate knowledge of space planning principles. 1.11.6 Measure interior spaces, furniture, and equipment. 1.11.7 Explain design ideas through scaled design drawings, plans, and other two- and three-dimensional designs.

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	1.11.8 Propose design concept statements using graphic solutions and oral presentations in a professional format. 1.11.9 Evaluate and apply codes and regulations to space planning projects.
	1.12 Manage the scope, cost, timing, and quality of the project, at all times focused on project success as defined by project stakeholders. 1.12.1 Align the project to the organization's strategic plans and business justification throughout its lifecycle. 1.12.2 Identify project goals, constraints, deliverables, performance criteria, control needs, and resource requirements in consultation with stakeholders. 1.12.3 Implement project management knowledge, processes, lifecycle and the embodied concepts, tools and techniques in order to achieve project success. 1.12.4 Adapt projects in response to issues that arise internally and externally. 1.12.5 Interact with team and stakeholders in a professional manner, respecting differences, to ensure a collaborative project environment. 1.12.6 Utilize technology tools for communication, collaboration, information management, and decision support. 1.12.7 Implement general business concepts, practices, and tools to facilitate project success. 1.12.8 Apply appropriate legal and ethical standards. 1.12.9 Work closely with quantity surveyors to establish costs and work schedules on large projects, with architects and other design professionals to

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	determine the best use of space, and with manufacturers and contractors. 1.12.10 Adapt project management practices to meet the needs of stakeholders from multiple sectors of the economy. 1.12.11 Appraise the role of project management in interior architecture.
	1.13 Identify essential driving forces of successful new venture creation in Interior Architecture. 1.13.1 Identify and critically assess the viability of business opportunities. 1.13.2 Critique the commercializing of Interior Architecture in a rapidly changing global environment. 1.13.3 Design a business plan for business opportunity in Interior Architecture industries. 1.13.4 Evaluate capital requirements for the new venture to ensure that the business start with sufficient financing. 1.13.5 Prepare a financial plan for the identified business opportunity.
1.14 Examine how design systems impacts building performance.	1.14.1 Identify how the different systems of a building contribute to the building system. 1.14.2 Explain environmental influences on buildings. 1.14.3 Apply principles of building science to assess building design and performance. 1.14.4 Apply scientific methods to critically evaluate claims on building performance. 1.14.5 Design integrated systems to optimize building performance.

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	1.14.6 Describe design intentions and undertake formal and spatial organisation as a response to the needs of users. 1.14.7 Outline the development of a design process through stages of research and analysis (including context and precedents) to outline design, and from outline design to detailed design. 1.14.8 Apply knowledge of human dimensions and interaction in design. 1.14.9 Demonstrate an awareness of the aesthetic and tactile properties of various materials employed in interior space. 1.14.10 Apply knowledge of colour theory and its effect on interior design schemes.
	1.15 Research and gather information relating to the Interior Architecture project. 1.15.1 Collect, review, critically evaluate and present information to build design knowledge and understanding. 1.15.2 Describe, analyse, and appraise research methods employed in a range of design research projects 1.15.3 Select and use appropriate methods for various design research problems.

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SECTION C		QUALIFICATION STRUCTURE				
FUNDAMENTAL COMPONENT Subjects/ Courses/ Modules/Units	TITLE		Credits Per Relevant NCQF Level			Total (Per Subject/ Course/ Module/ Units)
		Level [5]	Level [6]	Level [7]	Level [8]	
	Introduction to Computer Skills	10				10
	Introduction to Creative design		10			10
	Introduction to History and Culture	10				10
	Introduction to Digital Imaging	10				10
	Consumer Behavior			10		10
	Architectural Research and Communication	10				10
	CORE COMPONENT Subjects/Courses / Modules/Units	Interior Architecture		10	46	14
Design Thesis for Architecture					14	14
Construction Law				12		12
Professional Practice			10			10

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	Technical Drawing	10	12	12		34
	Entrepreneurship for the Arts		10			10
	Architecture Culture and History		20	12		32
	Project Management for Architecture			12		12
	Measurement and Application		10			10
	Environmental Study and Services			12		12
	Building Technology		20	24		44
	Material Study			12		12
	Housing and Design		12			12
	Building Science	10	10	12		32
	Digital Communication		10	12		22
	Research Methodology for Architecture			12		12
	Furniture Design Workshop			10		10
	Practical Curriculum				40	40
ELECTIVE/ OPTIONAL COMPONENT	Interior Techniques		10			10
	Advanced Digital Imaging					
	Principles of Economics					

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<i>Subjects/Courses / Modules/Units</i>			10			10
	Principles of Accounting					

SUMMARY OF CREDIT DISTRIBUTION FOR EACH COMPONENT PER NCQF LEVEL	
TOTAL CREDITS PER NCQF LEVEL	
NCQF Level	Credit Value
Level 5	60
Level 6	154
Level 7	198
Level 8	68
TOTAL CREDITS	480
Rules of Combination: (Please Indicate combinations for the different constituent components of the qualification)	
Fundamental component = 60 credits Core component = 400 credits Elective Component = 20 credits	

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ASSESSMENT ARRANGEMENTS

The learners will undergo formative and summative assessments which should be designed by assessors who are accredited by BQA. Formative assessments could comprise components such as class exercises, presentations, tests, assignments, demonstrations and simulations among others and final examination for summative assessment.

The weighting should be as 60% formative, and 40% summative assessment.

MODERATION ARRANGEMENTS

There will be internal and external moderation undertaken by moderators accredited by BQA. All processes and procedures will be in line with NCQF requirements. This will be conducted in reference to the institution's moderation policy and procedures.

RECOGNITION OF PRIOR LEARNING

There will be provision for awarding qualification through RPL according to National RPL policy.

CREDIT ACCUMULATION AND TRANSFER

There will be provision for awarding qualification through CAT according to CAT policy.

PROGRESSION PATHWAYS (LEARNING AND EMPLOYMENT)

Horizontal Articulation (related qualifications of similar level that graduates may consider)

NCQF Level 7

- Bachelor of Arts in Interior Decoration
- Bachelor of Arts in Construction Management
- Bachelor of Arts in Interior Design
- Bachelor of Arts in Building Design
- Bachelor of Arts in Real Estate Management
- Bachelor of Arts in Facilities Management

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- Bachelor of Science in Architectural Science

Vertical Articulation (qualifications to which the holder may progress to)

NCQF Level 9

- Master of Arts in Interior Design
- Master of Arts in Interior Architecture
- Master of Technology in Architectural Technology
- Master of Architecture
- Master of Architectural Science
- Master of Facility and Asset Management

EMPLOYMENT

Other than progressing academically Graduates of the course may find employment in a range of public and private organisations for the following posts:

- Interior Architect
- Residential Interior Designer
- Commercial Interior Designer
- Corporate Interior Designer
- Healthcare Interior Designer
- Kitchen and Bath Interior Designer
- Lighting and Acoustics Designer
- Sustainable Interior Designer
- Exhibition Designer
- Furniture Designer

QUALIFICATION AWARD AND CERTIFICATION

Minimum standards of achievement for the award of the qualification

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- To qualify for qualification award and certification, a students must
 - Attain a minimum of 480 credits overall.
 - A Bachelor of Arts in Interior Architecture certificate will be awarded to the learner on completion of the qualification.

REGIONAL AND INTERNATIONAL COMPARABILITY

The proposed qualification was compared to Bachelor of Science in Interior Architecture offered by the University of Pretoria, South Africa, Bachelor of Arts (Hons) Interior Architecture and Design from Portsmouth University, United Kingdom, and Bachelor of Arts (Hons) Interior Architecture, offered by Sunway University Shah Alam, Malaysia.

In comparison, the proposed Bachelor of Arts in Interior Architecture has similar exit outcomes and offers similar career and progression opportunities as the other three qualifications. The qualification strength is on that it exposes students to practical and live problem solving, research and thesis modules in addition to the common design, drawing, communication, and environmental studies. The qualification also allows for work placement as compulsory during the program of study and develops entrepreneurship skills. The proposed qualification is also richer and lengthier as opposed to the 3-year qualifications above.

Refer to attached comparability matrix.

REVIEW PERIOD

The qualification shall be reviewed every five (5) years