

BQA NCQF QUALIFICATION TEMPLATE

SECTION A:												QUALIFICATION DETAILS					
QUALIFICATION DEVELOPER (S)				BA ISAGO University													
TITLE		Bachelor of Science (Honours) in Building Surveying and Control								NCQF LEVEL		8					
STRANDS (where applicable)		N/A															
FIELD		Physical Planning & Construction								CREDIT VALUE		600					
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>Building surveying and control plays a critical role in ensuring that buildings are safe, sustainable and compliant with regulatory standards. In addition, modern building control is increasingly focused on energy efficiency, hazard resilience and sustainability principles. Botswana's commitment to sustainable development, as outlined in Vision 2036 and aligned with the Sustainable Development Goals (SDGs), underscores the urgent need for skilled professionals who can apply these principles in practice to support resilient urban growth and regulated construction projects in line with the Building</p>																	

Control Act (Cap. 65:02). The need for professionals in this field was also highlighted in the Botswana Construction Industry Report (2021), which pointed to a significant shortage of specialized expertise, particularly in building surveying. The report noted widespread skills deficits, limited capacity development and a lack of competitiveness among local companies compared to foreign firms. Furthermore, it emphasized that training in the sector has traditionally focused on craftsmanship, thereby neglecting the advancement of higher-level professional skills. Furthermore, the Human Resources Development Council's Consolidated List of Priority Occupations and Skills (2025) underscores a growing demand for skilled building and construction technologists, to support safe and environmentally responsible urbanization in line with Sustainable Development Goal 11.

The proposed Bachelor of Science (Honors) in Building Surveying and Control is designed to address the shortage of skilled professionals in Botswana's construction sector by equipping graduates with advanced expertise in planning, design, construction, building control and maintenance. The qualification will provide graduates with the requisite knowledge and technical skills to ensure adherence to safety standards, regulatory compliance and sustainable building practices, as well as foster innovation within the built environment. The qualification will also produce graduates who can effectively respond to the challenges of rapid urbanisation and contribute to resilient and environmentally responsible infrastructure.

PURPOSE: (itemise exit level outcomes)

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

- Design and oversee the construction of high quality, structurally sound buildings that are free from hazards and meet sustainability and environmental performance standards.
- Apply digital technologies and innovative construction methods to design and implement solutions for complex built environment challenges.
- Apply building regulations, codes and standards to enforce control measures, ensure compliance and manage risks across construction and built environment projects.

MINIMUM ENTRY REQUIREMENTS (including access and inclusion)

- i. Applicants must have a minimum of Certificate IV, NCQF Level 4 (TVET/GE) or equivalent.

OR

BQA NCQF QUALIFICATION TEMPLATE

- ii. Candidates who do not meet the minimum academic qualifications stated above will be considered through the 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 case they transfer in from another institution, as per the National Policy on CAT.

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SECTION B QUALIFICATION SPECIFICATION	
GRADUATE PROFILE (LEARNING OUTCOMES)	ASSESSMENT CRITERIA
<p>1. Demonstrate highly specialised knowledge of construction technologies and structural principles to design, inspect and maintain buildings.</p>	<p>1.1 Apply construction technology knowledge to design and maintain functional, safe and efficient structures.</p> <p>1.2 Prepare building layouts, specifications, and technical drawings and designs that comply with professional, regulatory and sustainability standards.</p> <p>1.3 Produce technical drawings, models or design proposals that comply with regulatory requirements and industry standards.</p> <p>1.4 Diagnose building defects, structural weaknesses and performance issues against regulatory and sustainability requirements.</p> <p>1.5 Inspect construction projects using building control principles and advise where work fails to meet compliance.</p> <p>1.6 Validate building materials and assess their suitability for use in construction.</p> <p>1.7 Recommend adaptations and repairs for new and existing buildings.</p>
<p>2. Apply building regulations, codes and standards to implement effective control</p>	<p>2.1 Propose mitigation strategies for identified legal and ethical risks in construction projects.</p>

<p>measures and manage risks in construction and built environment projects.</p>	<p>2.2 Integrate legal, regulatory and compliance practices into planning, design and construction activities.</p> <p>2.3 Apply key building regulations, standards and ethical considerations governing construction and urban development.</p> <p>2.4 Assess existing structures for fire and public safety measures and recommend practical improvements.</p> <p>2.5 Monitor construction processes to verify adherence to safety, quality and sustainability benchmarks.</p> <p>2.6 Prepare compliance reports and documentation for regulatory approval.</p> <p>2.7 Collaborate effectively with professionals across the built environment sector to solve problems in a multidisciplinary context.</p>
<p>3. Apply advanced and specialised digital technologies and innovative construction methods to solve complex built environment challenges and support sustainable urban growth.</p>	<p>3.1 Conduct basic research projects using appropriate methodologies.</p> <p>3.2 Collect and interpret data to inform decision-making in the built environment.</p> <p>3.3 Apply digital technologies (BIM, CAD, simulation tools) to support design, documentation and project control.</p> <p>3.4 Evaluate innovative materials, technologies and methods for their suitability in construction projects.</p> <p>3.5 Produce evidence-based reports and presentations to communicate research findings.</p> <p>3.6 Recommend innovative solutions to contemporary challenges in building surveying and control.</p>

BQA NCQF QUALIFICATION TEMPLATE

<p>4. Manage construction projects to ensure adherence to quality standards, sustainability and stakeholder satisfaction.</p>	<p>4.1 Plan construction projects using appropriate management tools and methods.</p> <p>4.2 Apply project management principles to control cost, time and quality outcomes.</p> <p>4.3 Implement procurement strategies and contract management processes.</p> <p>4.4 Apply risk management techniques to identify, analyse and mitigate project risks.</p> <p>4.5 Monitor occupational health, safety and environmental management standards.</p> <p>4.6 Evaluate project outcomes against client needs, stakeholder expectations and sustainability goals.</p>
<p>5. Apply business and financial management principles to manage resources effectively and deliver financially viable construction projects.</p>	<p>5.1 Apply financial and construction accounting techniques to track project costs and budgets.</p> <p>5.2 Use measurement and estimating methods to prepare accurate project costings.</p> <p>5.3 Analyse construction economics and market trends to support project feasibility.</p> <p>5.4 Develop business and entrepreneurship plans for opportunities in the built environment sector.</p> <p>5.5 Apply principles of management and organisational behaviour to resource and team coordination.</p> <p>5.6 Evaluate the financial viability and risk exposure of building projects.</p>
<p>6. Adhere to ethical and professional standards, communicate effectively and collaborate responsibly within multidisciplinary teams in the built environment.</p>	<p>6.1 Adhere to professional codes of ethics, conduct, and accountability in all surveying and construction practices.</p> <p>6.2 Comply with established communication protocols and use appropriate industry terminology, formats and tools.</p>

BQA NCQF QUALIFICATION TEMPLATE

	<p>6.3 Uphold principles of transparency, integrity and respect in professional interactions with stakeholders.</p> <p>6.4 Collaborate responsibly with multiple stakeholders (architects, engineers, contractors, regulators, clients) to achieve shared project goals.</p>
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SECTION C	QUALIFICATION STRUCTURE					
COMPONENT	TITLE	Credits Per Relevant NCQF Level				Total Credits
		Level [5]	Level [6]	Level [7]	Level [8]	600
		FUNDAMENTAL COMPONENT Subjects/ Courses/ Modules/Units	Computing and Information Skills	10		
Property Law			10			10
Research Methods				12		12
Business Communication	10					10
Business Planning and Entrepreneurship				12		12
Principles of Business Management	10					10
Principles of Financial Accounting			12			12
CORE COMPONENT Subjects/Courses/ Modules/Units	Construction Mathematics			12		12
	Construction Accounting			12		12
	Introduction to the Built Environment (Management 1)			12		12
	Construction Law For The Built Environment				10	10
	Organizational Management			12		12

BQA NCQF QUALIFICATION TEMPLATE

	Digital Technologies			12		12
	Construction Technology 1			12		12
	Introduction To Regulatory Frameworks			12		12
	Construction Technology 2			12		12
	Economics For The Built Environment			12		12
	Planning & Conservation			12		12
	Building Control & Inspection				10	10
	Construction Technology 3- Fabric & Performance			12		12
	Building Design, Documentation & Environmental Science			12		12
	Building Pathology			12		12
	Integrated Design Project			12		12
	Fire Safety			12		12
	Construction Technology 4- Public Safety In Buildings			12		12
	Structural Principles				10	10
	Care & Adaptation Of Buildings			12		12

BQA NCQF QUALIFICATION TEMPLATE

	Construction Technology 5- Construction Technology & Innovation			16		16
	Measurement & Estimating			12		12
	Risk & Safety Management			12		12
	Building Development & Compliance				10	10
	High Rise Development & Compliance				10	10
	Advanced Building Surveying				10	10
	Applied Project 1			16		16
	Building Services Management			12		12
	Construction Economics			12		12
	Complex Construction				10	10
	Applied Project 2				10	10
	Project Management Practice (Management 2)				10	10
	Industrial Attachment				120	120
	Research Project				30	30
	Subjects/ Courses/ Modules/Units	Credits Per Relevant NCQF Level				Total Credits

BQA NCQF QUALIFICATION TEMPLATE

STRANDS/ SPECIALIZATION						600
		Level [5]	Level [6]	Level [7]	Level [8]	
1.	Not Applicable					
Electives	Not Applicable					

BQA NCQF QUALIFICATION TEMPLATE

SUMMARY OF CREDIT DISTRIBUTION FOR EACH COMPONENT PER NCQF LEVEL

TOTAL CREDITS PER NCQF LEVEL

NCQF Level	Credit Value
5	30
6	22
7	308
8	240
TOTAL CREDITS	600

Rules of Combination:

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

The credit combination for this qualification comprises 76 credits from the fundamental component and 524 credits from the core component. The total credits for the qualification are 600. There are no strands or electives for this qualification.

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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 registered with the Botswana Qualifications Authority (BQA). The assessments will be as follows:

i. Formative Assessment

Formative assessment accounts for 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 with the Botswana Qualifications Authority (BQA).

RECOGNITION OF PRIOR LEARNING

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

CREDIT ACCUMULATION AND TRANSFER

Credit Accumulation Transfer (CAT) will be applicable for consideration for the award in this qualification, in line with RPL institutional policies on the same.

PROGRESSION PATHWAYS (LEARNING AND EMPLOYMENT)

Learning Pathways

Horizontal articulation

- Bachelor of Science Hons. in Construction Management
- Bachelor of Science Hons. in Building
- Bachelor of Science Hons. in Civil Engineering
- Bachelor of Science Hons. in Construction Technology

Vertical articulation

- Master of Science in Building Control
- Master of Science in Construction Management
- Master of Science in Project Management
- Master of Business Administration in Construction & Real Estate

Employment Pathways

- Building Control Officer
- Building Control Inspector
- Compliance Officer
- Quality Assurance Officer
- Risk- Assessment Officer
- Surveying Consultant
- Project Manager
- Facilities Manager

QUALIFICATION AWARD AND CERTIFICATION

Candidates meeting the prescribed requirements will be awarded the Bachelor of Science (Honours) in Building Surveying and Control qualification in accordance with the qualification composition rules and applicable policies. To be eligible for the award, candidates must have successfully completed all modules and passed examinations in accordance with regulations set by the faculty and have accumulated 600 credits.

SUMMARY OF REGIONAL AND INTERNATIONAL COMPARABILITY

The proposed qualification was benchmarked with the following:

- Bachelor of Science Honours Building Surveying - University of the Built Environment (UBE) (UK)
- Bachelor of Science Honours in Building Surveying - University of Westminster (UK)
- Bachelor of Science Honours in Surveying – The Hong Kong Polytechnic University (Hong Kong)

The benchmarking exercise revealed that the BSc (Hons) Building Surveying programmes at UBE, the University of Westminster, the BSc (Hons) in Surveying from Polytechnic University and the proposed qualification share notable similarities and differences. On their respective qualification frameworks, UBE and Westminster align with the UK FHEQ Level 6, while Polytechnic University is

an HKQF Level 5 qualification, and BA ISAGO's proposed qualification is pitched higher, at Level 8 on the NCQF.

In terms of titles, UBE and Westminster offer a BSc (Hons) in Building Surveying, with Polytechnic University offering a BSc Hons in Surveying, while BA ISAGO proposes a BSc (Hons) in Building Surveying and Control. Collectively, these qualifications share the objective of preparing students to meet industry standards and contribute meaningfully to the built environment. In terms of structure, UBE, BA ISAGO and Polytechnic University consist exclusively of compulsory modules, which are consistent across institutions, encompassing construction technology, regulatory compliance, fire safety, sustainability and inspection procedures, which are core areas that equip graduates with essential technical competencies for careers in building control and surveying.

All benchmarked qualifications, along with the proposed one, employ diverse forms of assessment, including online submissions, project-based tasks, industrial attachments and examinations, with a clear emphasis on continuous assessment. Despite these similarities, some notable distinctions exist. Westminster integrates an apprenticeship model in partnership with industry stakeholders, providing apprentices with structured industrial training. BA ISAGO, however, places a stronger emphasis on industry engagement through a year-long Industrial Attachment complemented by sequenced site visits. UBE and Westminster are aligned with RICS, CIOB and CIBE, granting graduates direct eligibility for professional registration as building surveyors.

All four are Honours qualifications but vary significantly in credits and duration. UBE and Westminster offer 400 and 360 credits respectively, with 3 years duration for both; whereas Polytechnic University's qualification comprises 123 credit points with a duration of 4 years, and the proposed qualification carries 600 credits with a duration of 5 years.

The proposed and benchmarked qualifications also offer pathways for further academic progression and career development. Across the board, they provide a strong platform for postgraduate study in fields such as Building Control and Surveying, Construction Economics, Project Management, Facilities Management and Building Technology, while leading to similar employment outcomes. The common professional pathways include roles as building control officers and building surveyors, ensuring graduates remain competitive across a wide range of industry opportunities.

REVIEW PERIOD

This qualification will be reviewed after 5 years upon registration.

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BQA NCQF QUALIFICATION 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	