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

SECTION A: QUALIFICATION DETAILS													
QUALIFICATION DEVELOPER (S)		Logan Business College											
TITLE	Bachelor of Science in E-Business										NCQF LEVEL	7	
FIELD	Information and Communication Technology		SUB-FIELD		E-Business					CREDIT VALUE	489		
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						
1. RATIONALE AND PURPOSE OF THE QUALIFICATION													
<p>Developer conducted an extensive market survey prior to the designing of the Qualification where critical gaps in E-Business Industry were addressed. The Market survey was conducted on the E-Business Firms in Botswana and Government Departments who needed extensive E-Business skills in their E-Business Professions. The critical gaps were related to the mismatch in the employability of the students in the E-Business industry. It emerged that industry was concerned about the lack of E-Business skills and the application of E-Commerce Systems, Computerised Accounting, Software Development, Media Studies, Web</p>													

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


Technologies and Systems and Graphic Design and Arts in E-Business. The survey revealed that most E-Business firms expect the graduate to be articulate in the application of E-Business Skills.

The Human Resource Development Council, HRDC, (2016-2021, Page 119), through the 14 HRDC Sector Committees which were established to address the problem of skills mismatch, to produce a globally competitive Human Resource. Vision 2036, which is focused on “achieving prosperity for all”, under Pillar 2, Human and Social Development is aimed at education and skills development. This would ensure that Botswana society will be knowledge based with relevant quality education that is outcome based, emphasizing on education with production, Vision, (2036, Page 31). Furthermore, Statistics Botswana through its data portal led the 2030 agenda for sustainable development and refined its mandate through sustainable development goals. Goal number 4 was aimed at leading quality education to ensure inclusive and equitable quality education and promote lifelong learning opportunities for all, (<http://botswana.opendataforafrica.org>).

1.1. PURPOSE:

Graduates of this qualification will be able to:

- Apply E-Commerce Examination in business processes including electronic transactions, supply chains, decision making and organizational performance.
- Exhibit strong practical knowledge, skill and competence in computer software, the network system and use of software applications.
- be effective E-Business professionals, in Finance, Insurance, Stock Market, Banks and the general Business Settings.
- Demonstrate their knowledge and skills to integrate E-Commerce Systems, Business Innovations, Media Studies, Imaging and Animation, E-Commerce Applications and Systems, Business Analysis, E-Purchasing and Selling, Business Informatics and International Business Trade.
- Apply generic E-commerce and E-Government competencies, as well as generic technical competencies.
- Design an informative, organized, and accurate e-commerce related presentation of text, audio and graphical information considering technical and aesthetic considerations.

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

- Develop the Internet and World Wide Web covering web technologies, information architecture, digital media, web development, vulnerabilities, social software, HTML/XHTML, Cascading Style Sheets, and JavaScript code.
- Apply research knowledge, skills and competence in a practical research project which is aligned to their areas of specialization and organization of their choice.
- Exhibit their skills on attachment at the organisations of their choice to allow them to acquire deeper and comprehensive knowledge of E-Business and allow for future career advancement across the various fields of specialization.

2. ENTRY REQUIREMENTS (including access and inclusion)


Minimum entry requirement for this qualification is a:

Certificate IV, NCQF Level 4 (General Education or TVET) or equivalent including a pass in English Language, Mathematics and Science.


Recognition of Prior Learning (RPL):


There shall be provision for entry through Recognition of Prior Learning (RPL) and Credit Accumulation and Transfer (CAT) in line with institutional and national policies.


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


3. SECTION B QUALIFICATION SPECIFICATION	
GRADUATE PROFILE (LEARNING OUTCOMES)	ASSESSMENT CRITERIA
3.1. Apply E-Commerce Examination in business processes including electronic transactions, supply chains, decision making and organizational performance	3.1.1. Demonstrate the importance of E-commerce. 3.1.2. Analyse branding and pricing strategies, using market research. 3.1.3. Analyse the impact of E-commerce on business models and strategy. 3.1.4. Describe Internet trading relationships including Business to Consumer, Business-to-Business, Intra-organizational. 3.1.5. Explain the infrastructure for E-commerce. 3.1.6. Describe the key features of Internet, Intranets and Extranets and explain how they relate to each other. 3.1.7. Discuss legal issues and privacy in E-Commerce. 3.1.8. Assess electronic payment systems. 3.1.9. Recognize and discuss global E-commerce issues.
3.2. Exhibit strong practical knowledge, skill and competence in computer software, the network system and use of software applications.	3.2.1. Demonstrate knowledge and skills in computers and their peripheral software and hardware applications. 3.2.2. Draw the components of the computer, label and describe their functions. 3.2.3. Apply appropriate operating systems and utility programs in computer networks and internet.
3.3. Apply knowledge, skills, and competence in different statistical approaches.	3.3.1. Demonstrate knowledge in statistics and its applications in the business world.

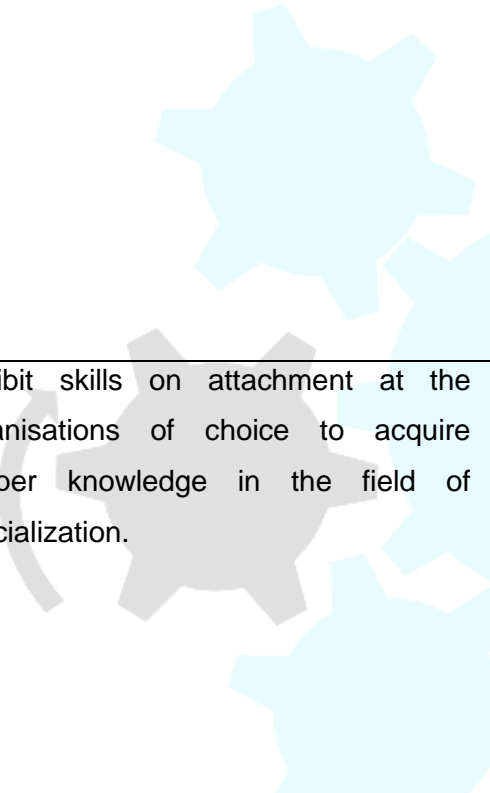
	BQA NCQF QUALIFICATION TEMPLATE	Document No.	DNCQF.QIDD.GD02
		Issue No.	01
		Effective Date	04/02/2020

	<p>3.3.2. Apply appropriate methods for sampling distributions and estimations.</p> <p>3.3.3. Demonstrate requisite skills and attitudes in the calculation of various statistical inferences including deviation, Regression, and Time Series.</p>
	<p>3.4. Apply expert knowledge about E-Business environment.</p> <p>3.4.1. Explain the E-Business Systems and how they function in the financial sector.</p> <p>3.4.2. Equip students with the Technical and analytical tools, and strategic abilities necessary to understand the evolution and workings of the banking sector, Insurance and Financial Institutions.</p> <p>3.4.3. Apply analytical skills and modelling methodologies to recognize, analyse, synthesise, and implement operational solutions to poorly structured e-business environment.</p> <p>3.4.4. Critically assess existing theories, models, methods, and results, both qualitatively and quantitatively, within the field of E-Business.</p>
<p>3.5. Design an informative, organized, and accurate e-commerce related presentation of text, audio and graphical information considering technical and aesthetic considerations.</p>	<p>3.5.1. Use a web page editor to create effective web pages.</p> <p>3.5.2. Design (plan) a simple e-commerce web site.</p> <p>3.5.3. Create and publish a simple e-commerce web site.</p> <p>3.5.4. Analyse e-commerce business needs and resources and match to technology considering human factors and budget constraints.</p> <p>3.5.5. Distinguish various e-commerce trading relationships.</p> <p>3.5.6. Write examinations and/or quizzes.</p>


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

	3.5.7. Critique E-commerce case study
<p>3.6. Develop the Internet and World Wide Web covering web technologies, information architecture, digital media, web development, vulnerabilities, social software, HTML/XHTML, Cascading Style Sheets, and JavaScript code.</p> 	<p>3.6.1. Describe the importance of the HTTP protocol in Web applications.</p> <p>3.6.2. Create and validate HTML/XHTML documents.</p> <p>3.6.3. Discuss Web standards and standard bodies including the World Wide Web Consortium (W3C).</p> <p>3.6.4. Discuss Web Standards in terms of specifications, guidelines, software, and tools.</p> <p>3.6.5. Build a simple web site that organizes information effectively</p> <p>3.6.6. Identify the purpose of a web site or genre (ecommerce, self-service, educational, governmental service, etc.)</p> <p>3.6.7. Choose a graphic file type that matches the image characteristics and use.</p> <p>3.6.8. Identify time-based media types commonly used on the web.</p>
<p>3.7. Apply research knowledge, skills and competence in a practical research project which is aligned to their areas of specialization and organization of their choice.</p>	<p>3.7.1. Choose a research topic to work their dissertation on the organisations of their choice.</p> <p>3.7.2. Make a write up of the backgrounds of the topic and the organisations following a research guideline.</p> <p>3.7.3. Critic literature review and relate their topic to what has been researched by other scholars to answer the research questions.</p>

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


	<p>3.7.4. Come up with the relevant research methodology and design incorporating data collection methods ensuring the accuracy and validity of the instruments used.</p> <p>3.7.5. Present the data and discuss the findings of the research.</p> <p>3.7.6. Come up with relevant Conclusion and recommendations.</p>
	<p>3.8. Exhibit skills on attachment at the organisations of choice to acquire deeper knowledge in the field of specialization.</p> <p>3.8.1. Visit companies for industrial companies.</p> <p>3.8.2. Enhance higher education skills through practice and processes of organization of attachment.</p> <p>3.8.3. Produce placement report detailing work done and skills acquired.</p> <p>3.8.4. Present on placement experience.</p> <p>3.8.5. Keep a detailed logbook of work done, with workplace supervisor approvals.</p>

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


4. 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 Subjects/ Courses/ Modules/Units	Introduction to E-Commerce	5			12
	Introduction to Business Statistics	5			12
	Information communication Technology	5			12
	Business Communications	5			12
	Introduction to Computerised Accounting	5			12
CORE COMPONENT Subjects/Courses/ Modules/Units	E-Commerce Technologies		6		13
	Multimedia		6		13
	Object –Oriented Modeling and Programming		6		13
	Digital Audios and Videos		6		13
	Entrepreneurship and Venture		6		13

	Software Development		6		14
	Media Studies		6		14
	Business Law		6		14
	Business Economics		6		14
	Web Technologies and Systems		6		14
	Business Innovation			7	14
	Wireless Network Planning			7	14
	E-Commerce Systems			7	14
	Imaging and Animation.			7	14
	E-Commerce Applications and Systems			7	14
	E-Business			7	15
	Distributed Information Systems			7	15
	Graphic Design and Arts			7	15
	Satellite and Space Communications			7	15
	E-Commerce International			7	16

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

	E-Government			7	16
	Business Informatics			7	16
	International Business and Trade			7	16
	E-Business			7	16
	Dissertation			7	20
	INDUSTRIAL ATTACHMENT			7	32
ELECTIVE/ OPTIONAL COMPONENT Subjects/Courses/ Modules/Units (Choose 2 Modules)	E-Commerce Systems Development			7	16
	Digital Applications for Electronic Media			7	16
	Business Analysis			7	16
	E-Purchasing and Selling			7	16
	Total				489

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

4.1. SUMMARY OF CREDIT DISTRIBUTION FOR EACH COMPONENT PER NCQF LEVEL

TOTAL CREDITS PER NCQF LEVEL


NCQF Level	Credit Value
Level 5	60
Level 6	135
Level 7	294
TOTAL CREDITS	489

4.1. Rules of Combination:

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

A candidate to be awarded the Qualification must complete 60 Credits of the Fundamental Component, 397 Credits of the Core component and 32 Credits for (2) Elective Modules.

(Note: Please use Arial 11 font for completing the template)

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

5. ASSESSMENT ARRANGEMENTS

5.1. Formative Assessment

The weighting of Formative Assessment is **40%** of the final grade.

5.2. Summative Assessment

The Final Examination is **60%** of the final grade.

Assessment will be conducted by professionals registered and accredited by BQA as Assessors.

6. MODERATION ARRANGEMENTS

6.1. MODERATION REQUIREMENTS

There will be both internal and external moderation, conducted by professionals registered and accredited by BQA as Moderators.


7. *Recognition of prior learning (RPL) and CREDIT ACCUMULATION AND TRANSFER (CAT)*

There is provision for Award of the qualification through RPL and CAT. This will be done with reference to the institution's policy which shall be aligned to the BQA National CAT policy.

8. PROGRESSION PATHWAYS (LEARNING AND EMPLOYMENT)

Horizontal Progression

- Bachelor of Science in Information Technology.
- Bachelor of Science in Business and Information Technology.
- Bachelor of E- Commerce and Information Technology Systems.
- Bachelor of E-Purchasing and Supply.

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

Vertical Progression

- Master of Science in Information Technology.
- Master of Science in Business and Information Technology.
- Master of E- Commerce and Information Technology Systems.
- Master of E-Purchasing and Supply.

Diagonal Progression

- Post Graduate Diploma in Higher Education.
- Master of Science in Project Management.
- Master of Business Administration specialising in Human Resource Management
- Master of Accounting and Finance.


Employment Pathways

- IT engineers
- E-Business System Developer.
- Bank System Analyst.
- E-Government System Analyst.
- Website Developer
- Online Business and Trade Specialist.
- Senior IT Engineer.
- Retail Systems Manager.

9. QUALIFICATION AWARD AND CERTIFICATION

9.1. Minimum Standard of achievement for the award of the qualification.

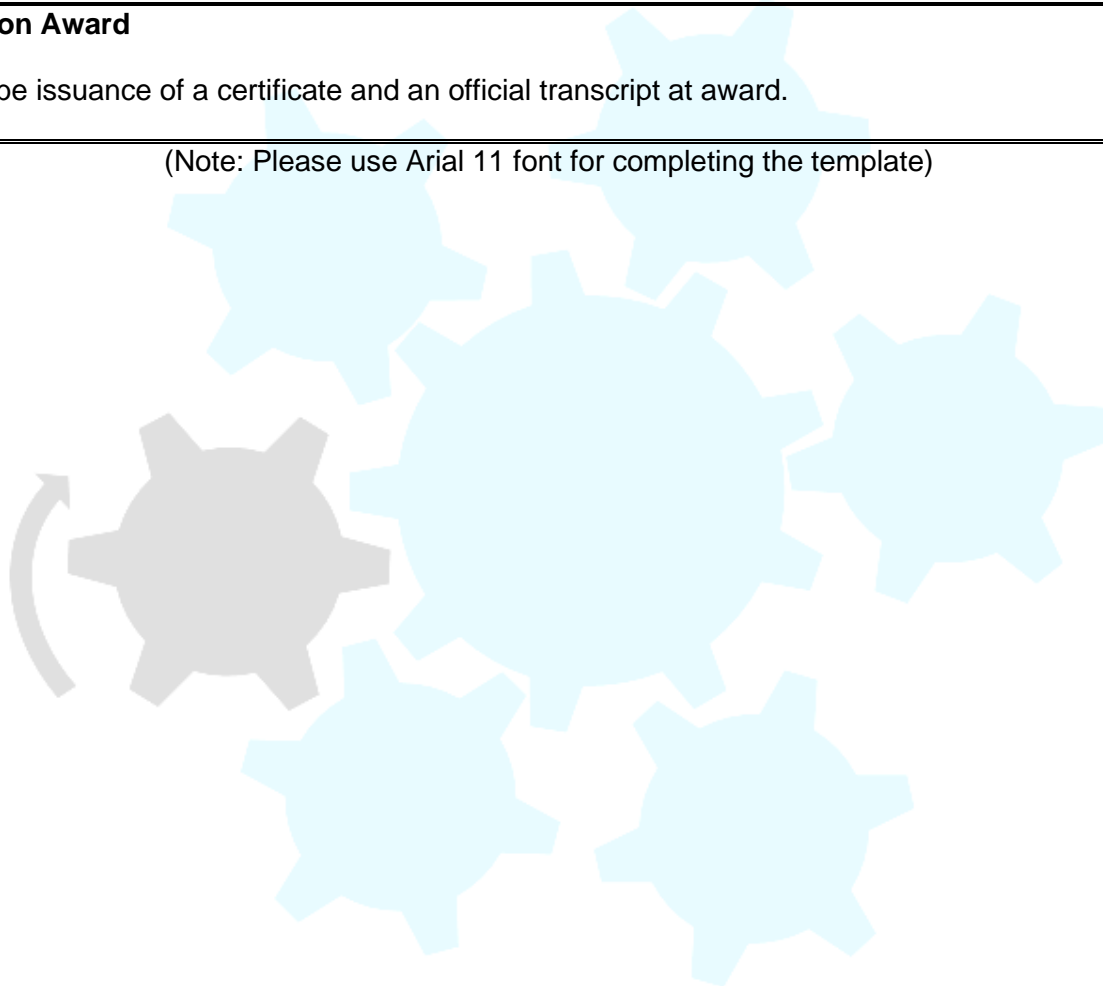
Leaners will be awarded Bachelor of Science in E-Business qualification upon attainment of a minimum of 489 credits. The Candidate should pass all the **Fundamental, Core and 2 Elective** module.


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

Certification Award

There will be issuance of a certificate and an official transcript at award.

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

10. REGIONAL AND INTERNATIONAL COMPARABILITY

Provider: LOGAN BUSINESS COLLEGE

Faculty/Department: FINANCE AND ACCOUNTING

Title Of Proposed Qualification: BACHELOR OF SCIENCE IN E-BUSINESS


Comparability Matrix of Qualifications

Subfield: E-BUSINESS


Introductory Statement

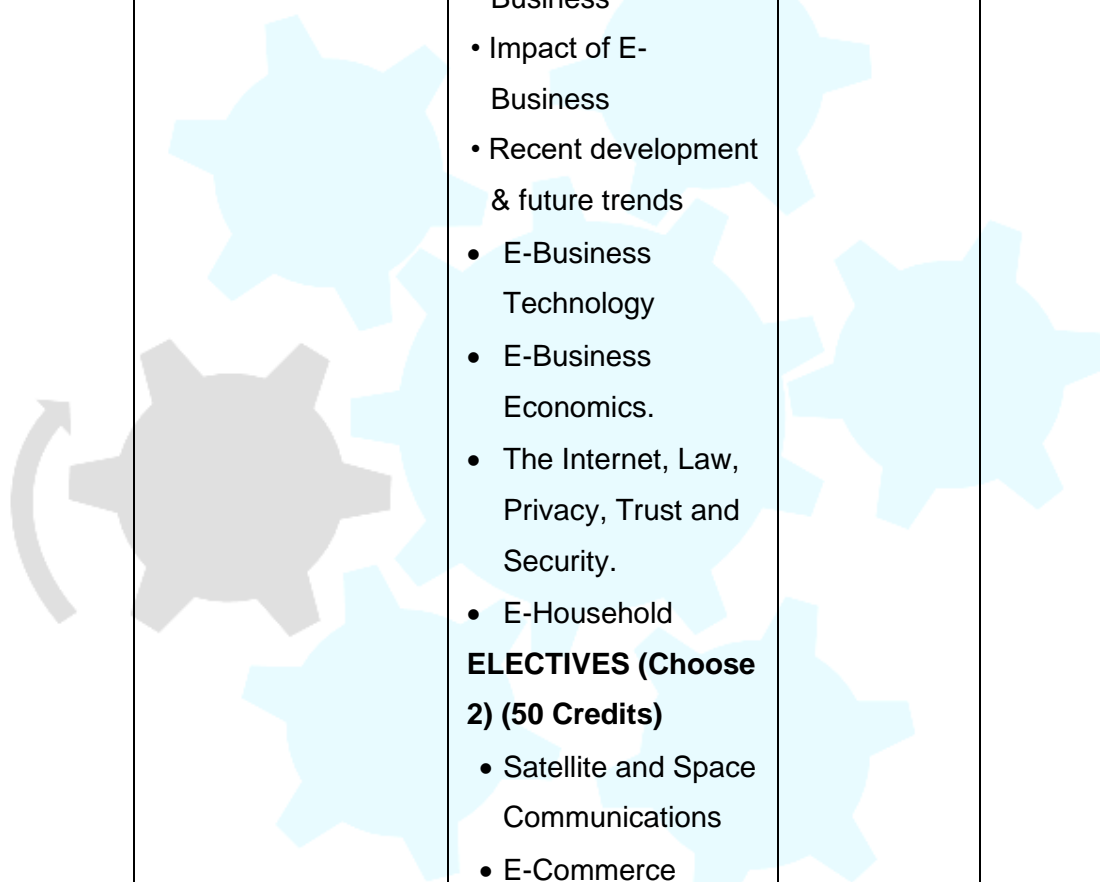
This learning programme is based on registered NCQF standards. Although the NCQF Standards have been used as the main benchmark, further benchmarking was done with the entities within the SADC region and Globally. The findings are as indicated below:


Name of University (and Country)	Title of Qualification, NQF Level & Credit Value	Main Exit Outcome(s)	Domains/Modules/ Courses/Subjects covered (Fundamental, core & electives)	Assessment strategies and Weightings	Qualification rules and minimum Standards for the award of the qualification	Education and Employment Pathways
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 BQA NCQF QUALIFICATION TEMPLATE	Document No.	DNCQF.QIDD.GD02
	Issue No.	01
	Effective Date	04/02/2020


University of Sydney (Australia)	Bachelor of Science in E-Business, NCQF Level 7, and 490 Credits.	Provides the programme that focuses on E-Business two interrelated areas of study intended to develop human capital for the E-Business industry by exposing learners to an up-to-date E-Business curriculum and students go for attachment at E-Business Firms for real life situations in E-Business and Technologies.	FUNDAMENTAL (50 Credits) <ul style="list-style-type: none"> • Introduction to E-Business • E-Business Technology & Infrastructure • E-Business Markets CORE (390 Credits) <ul style="list-style-type: none"> • Revenue Models • E-Marketing • E-Business Strategy • Online Payment Systems • Online Security 	Formative Assessment –40% Summative Assessment – 60%	The student has to ensure he/she has cleared 50 Credits of Fundamental 390 Credits of Core Modules to be awarded the Qualification. And 50 Credits for Elective Modules	<ul style="list-style-type: none"> • Business systems analyst. • Content manager. • Content strategist. • Database administrator. • Digital marketing manager.
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 BOTSWANA Qualifications Authority	BQA NCQF QUALIFICATION TEMPLATE	Document No.	DNCQF.QIDD.GD02
		Issue No.	01
		Effective Date	04/02/2020


			<ul style="list-style-type: none"> • Management of E-Business • Impact of E-Business • Recent development & future trends • E-Business Technology • E-Business Economics. • The Internet, Law, Privacy, Trust and Security. • E-Household <p>ELECTIVES (Choose 2) (50 Credits)</p> <ul style="list-style-type: none"> • Satellite and Space Communications • E-Commerce International • E-Government 		
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 BOTSWANA Qualifications Authority	BQA NCQF QUALIFICATION TEMPLATE	Document No.	DNCQF.QIDD.GD02
		Issue No.	01
		Effective Date	04/02/2020

			<ul style="list-style-type: none"> • Business Informatics 			
Name of University (and Country)	Title of Qualification, NQF Level & Credit Value	Main Exit Outcome(s)	Domains/Modules/Courses/Subjects covered (Fundamental, core & electives)	Assessment strategies and Weightings	Qualification rules and minimum Standards for the award of the qualification	Education and Employment Pathways
Massachusetts University (USA)	Bachelor of Science in E-Commerce specializing in Business Technologies, NCQF Level 7, 520 Credits.	Provides candidates with competence to Interpret and evaluate E-Commerce Applications and Systems as phenomenon and as a business system. Explain the diverse nature of E-Business with specialization in Business Technologies. Identify	FUNDAMENTAL (60 Credits) <ul style="list-style-type: none"> • Introduction to e-commerce. • The Internet and the WWW. • E-commerce software. • E-commerce hardware. • Security. CORE (420 Credits)	Formative Assessment – 35% Summative Assessment – 60% Presentation 5%.	The student has to ensure he/she has cleared 60 Credits of Fundamental Components, 420 Credits of Core Modules and 5 Credits of Participation. And 35 Credits of Elective Modules	<ul style="list-style-type: none"> • Full stack developer. • Information architect. • Marketing technologist. • E business Support Associate • IT Business Analyst

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


		<p>and assess relationships and networks relative to building E-Business and E-Commerce Systems Development. Apply problem solving and critical analysis within diverse contexts.</p>	<ul style="list-style-type: none"> • Electronic payment systems. • Marketing, sales, and promotion. • Purchasing, logistics, and support activities. • B2B e-Business • Global E-Business • E-Commerce Market. • Database Modelling and Database Systems. • Business Intelligence. • Agile project Management. • Entrepreneurship and Innovation. 			
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 BQA NCQF QUALIFICATION TEMPLATE	Document No.	DNCQF.QIDD.GD02
	Issue No.	01
	Effective Date	04/02/2020

			<ul style="list-style-type: none"> • Software Engineering • Dissertation ELECTIVES (Choose 2) <ul style="list-style-type: none"> • Internet of things. • Data protection and IT Security • E-Marketing • Web and Database Integration. 			
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Summary of Similarities and Differences Observed

1. **University of Sydney (Australia), Bachelor of Science in E-Business, NCQF Level 7, and 490 Credits** provides the programme that focuses on E-Business two interrelated areas of study intended to develop human capital for the E-Business industry by exposing learners to an up-to-date E-Business curriculum and students go for attachment at E-Business Firms for real life situations in E-Business and Technologies.
2. **Massachusetts University (USA), Bachelor of Science in E-Commerce specialising in Business Technologies, NCQF Level 7, 520 Credits**, provides candidates with competence to Interpret and evaluate E-Commerce Applications and Systems as phenomenon and as a business system. Explain the diverse nature of E-Business with specialisation in Business Technologies. Identify and assess relationships


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

and networks relative to building E-Business and E-Commerce Systems Development. Apply problem solving and critical analysis within diverse contexts.

3. **Other Qualifications offered in countries such as New Zealand and Switzerland (Europe)** generally emphasise on development of competencies in local and global E-Business and how it can be synthesized to bring the best of E-Business Skills and Competencies. Business trends signify that E-Business Industry has high skills demand; labour market Observatory confirms the same through HRDC Sector committees on Occupations on demand. Although the qualifications examined generally follow similar structures and standards, there are differences, though not significant, in that their niche market and programme layout are focusing in certain sectors of the economy which is different from the other.

Comparability and articulation of the proposed qualification with the ones examined

The proposed qualification generally compares well with all the qualifications studied since the exit outcomes cover similar scope and depth and are aligned to exit-level descriptors typical to this level and type of qualification as done within the region and beyond as well as competencies required by the Business Botswana (BB) and the Innovation Hub of Botswana. However, what sets this programme apart from the qualifications examined is that there is provision for development of attributes such as E-Commerce Technologies, Multimedia, Software Development, Web Technologies and Systems, Wireless Network Planning and E-Commerce International, which are crucial for the E-Business Industry. The programme for Logan Business College is outcome based and is anchored on a competency and credit-based qualification framework. Therefore, it stands a niche above the rest.

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

REVIEW PERIOD

This qualification will be reviewed after 5 years.

Submitted by: T. Tasiyana

Signature:



Date: 28/10/2021