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		Issue No.	01
		Effective Date	04/02/2020

SECTION A: QUALIFICATION DETAILS														
<b>QUALIFICATION DEVELOPER (S)</b>		University of Botswana												
<b>TITLE</b>	Master of Public Administration (Environmental Resource Management)										<b>NCQF LEVEL</b>	9		
<b>FIELD</b>	Humanities and Social Sciences			<b>SUB-FIELD</b>		Environmental Resource Management				<b>CREDIT VALUE</b>	240			
New Qualification						√		Review of Existing Qualification						
<b>SUB-FRAMEWORK</b>		General Education					TVET					Higher Education		√
<b>QUALIFICATION TYPE</b>	Certificate	I	II	III	IV	V	Diploma		Bachelor or					
	Bachelor Honours			Post Graduate Certificate				Post Graduate Diploma						
	Masters					√		Doctorate/ PhD						
<b>RATIONALE AND PURPOSE OF THE QUALIFICATION</b>														
<p><b>RATIONALE:</b></p> <p>The Master of Public Administration (Environmental Resources Management) became increasingly popular not only because of the cost, but because of the rigour it offers. The qualification was designed to further the intellectual and professional development of middle to senior level staff in the public and private sectors. It integrates theory and practice in enhancing understanding, knowledge, and skills essential to the management and leadership of public organisations.</p> <p>The MPA (Environmental Resources Management) qualification has proved increasingly popular, at least in</p>														

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terms of increased demand vis-à-vis the required number of students. The qualification intends to substitute overseas qualifications, which have become very costly to most SADC governments. Its advantages are that having been conceived and refined within the region, its focus is relevant and appropriate to the developmental needs of the region; it balances academic and applied aspects; and avoids the overtly commercial, profit-orientated nature of some of those overseas qualifications.

The qualification will address the human resources needs in environmental resources management, as the Human Resources Development Council (HRDC) in 2019 identified environmental resources management as priority area for skills development.

Furthermore, the qualification will meet the requirements of Pillar 2 of Vision 2036 on human resource development which states that 'by 2036 Botswana will be a moral, tolerant and inclusive society that provides opportunities for all'.


#### **PURPOSE:**

The purpose of this qualification Master of Public Administration (Environmental Resources Management) is to produce graduates with knowledge, and competences to:

- Integrate information across environment and natural resource disciplines, to recognize patterns and draw conclusions.
- Use and adapt information in innovative ways to resolve diverse and complex environment and natural resource issues.
- Develop and coordinate complex multifaceted programs of research, inventory, monitoring, and resources management based on scientific knowledge.
- Develop new policies, regulations, guidelines, programs, and concepts with broad application through interpretation of existing laws.

Respond to topics relating to environmental and natural resources policy issues timely


#### **ENTRY REQUIREMENTS (including access and inclusion)**

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Entry requirements for Master of Public Administration (Environmental Resources Management) qualification are as follows:

- NCQF Level 7 qualification in Humanities and Social Sciences or equivalent.
- Entry through Recognition of Prior Learning in line with institutional and National Policies.

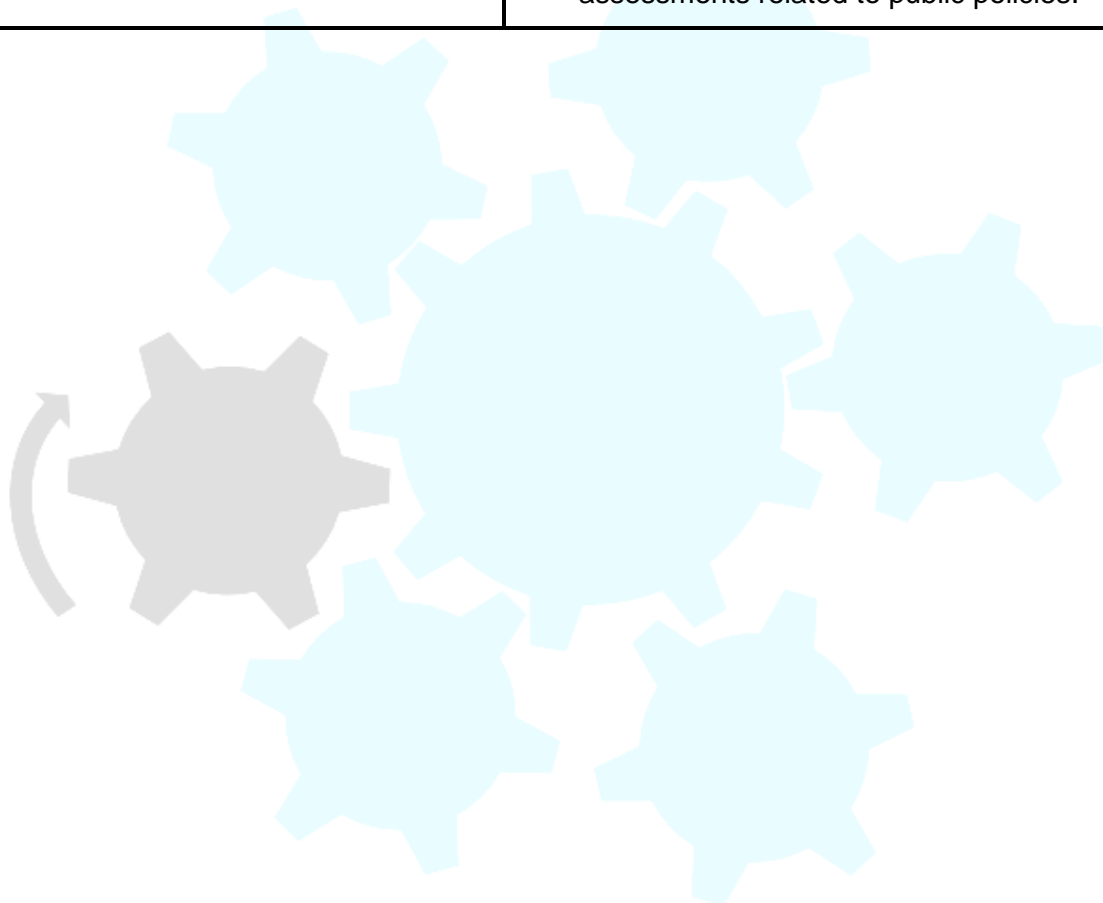
<b>SECTION B QUALIFICATION SPECIFICATION</b>	
<b>GRADUATE PROFILE (LEARNING OUTCOMES)</b>	<b>ASSESSMENT CRITERIA</b>
1. Demonstrate a critical understanding of the operation of governments across the world.	1.1 Differentiate internal environmental and natural resources operations across governments. 1.2 Explain governments operations relating to environmental and natural resources.
2. Communicate effectively, in a clear and concise manner, government environmental and resources management policies.	2.1 Espouse eloquently, policy positions at the workplace, meetings, workshops, and conferences. 2.2 Translate facts obtained from various sources into consumable reports.
3. Apply environmental resources management theories to decision making.	3.1 Apply relevant theories to justify arguments. 3.2 Make policy appropriate decisions about environmental resources management.
4. Conduct enquiry of well-defined problems in environmental resources management.	4.1 Develop literature review using relevant sources. 4.2 Formulate hypothesis in relation to the research problem. 4.3 Prepare a research design appropriate for inquiry on


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	<p>the research problem</p> <p>4.4 Collect and analyse data using suitable methods</p> <p>4.5 Interpret data and make conclusions and recommendations</p> <p>4.6 Develop various communication documents, e.g. reports, policy issue papers, policy briefs and policy memoranda, cabinet memoranda, cabinet information notes related to environmental resource management.</p>
5. Gather documents and utilise relevant information for informing formulation of sound policy in environmental and natural resources.	<p>5.1 Conduct subject matter relevant research to inform policy decision making.</p> <p>5.2 Identify a broad range of sources related to environmental and natural resources management.</p>
6. Assess how a policy achieves its intended goals, at what cost and with what effects on society.	<p>6.1 Analyse a policy document.</p> <p>6.2 Evaluate different policies in the field of environmental and natural resources.</p>
7. Develop creative and pragmatic solutions to a range of environmental and natural resources management challenges	<p>7.1 Make environmental and natural resources policy appropriate decisions.</p> <p>7.2 Respond timely through newspaper commentaries, short- and long-term assessments papers to topics relating to environmental and natural resources policy issues.</p>
8. Analyse individually principles of public policy and apply these to their own work.	<p>8.1 Prepare reports following conclusion of research on environmental and natural resources issues.</p> <p>8.2 Explain principles of public policy and apply them to specific policy problems.</p>
9. Demonstrate ability to work in a team in the	<p>9.1 Demonstrate leadership taking initiative on stakeholders in the environmental factors.</p>


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various stages of public policy.	9.2 Contribute as part of a team during group assessments related to public policies.
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<b>SECTION C</b>	<b>QUALIFICATION STRUCTURE</b>				
<b>COMPONENT</b>	<b>TITLE</b>	<b>Credits Per Relevant NCQF Level 9</b>			<b>Total (Per Subject/ Course/ Module/ Units)</b>
		<b>Level [7]</b>	<b>Level [8]</b>	<b>Level [9]</b>	
<b>FUNDAMENTAL COMPONENT</b> <i>Subjects/ Courses/ Modules/Units</i>	Natural Resource Use Policies			15	15
	Public Policy and Administration			15	15
	Research Methods & Computer Applications			15	15
	Economic Aspects of Resources Utilization & Management			15	15
<b>CORE COMPONENT</b> <i>Subjects/Courses/ Modules/Units</i>	Environmental and Natural Resources Management			15	15
	Integrated Environmental Management			15	15
	Rural Development & Natural Resources			15	15


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	Conservation				
	Land-use Planning and Management			15	15
	Dissertation			120	120

<b>SUMMARY OF CREDIT DISTRIBUTION FOR EACH COMPONENT PER NCQF LEVEL</b>	
<b>TOTAL CREDITS PER NCQF LEVEL</b>	
<b>NCQF Level</b>	<b>Credit Value</b>
9	Course work (120) and Dissertation (120)
<b>TOTAL CREDITS</b>	<b>240</b>
<b>Rules of Combination:</b> <b>(Please Indicate combinations for the different constituent components of the qualification)</b>	
The Master of Public Administration (Environmental Resources Management) is composed of a total of 240 credits at NCQF level 9 and made out of course work comprising of fundamental (60 credits), core courses (60 credits), and Dissertation (120 credits).	

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<b>ASSESSMENT ARRANGEMENTS</b>
Formative assessments are based on the achievement of the learning outcomes. The contribution of formative assessment to the final grade is 50%.
Summative assessment contributes 50% to the final grade.
<b>MODERATION ARRANGEMENTS</b>
Both internal and external moderation will be undertaken by moderators who have been registered and

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accredited.

## **RECOGNITION OF PRIOR LEARNING**

Recognition of Prior Learning (RPL) for the award of this qualification will be in line with the Education and Training Provider and National policies.

## **CREDIT ACCUMULATION AND TRANSFER**

Credit Accumulation Transfer (CAT) for the award of this qualification will be in line with the Education and Training Provider and National policies.

## **PROGRESSION PATHWAYS (LEARNING AND EMPLOYMENT)**

### **Horizontal Articulation**

Graduates of this qualification may consider pursuing related qualifications for purposes of up skilling.

#### **Horizontally the qualification articulates with:**

- Master's degree in Environmental Science NCQF level 9
- Master's degree in Development Studies NCQF level 9
- Master's degree in Business Administration NCQF level 9

### **Vertical Articulation** (qualifications to which the holder may progress to:

#### **Vertically it articulates with:**


- PhD in Public Administration (Environmental Resources Management) and other cognate areas at NCQF level 10

### **Employment Pathways**

Graduates will have requisite competences and attributes to work as:

- Administration Officers in the public service.
- Environmental and Natural Resources Managers.
- Environmental and Natural Resources Consultants.
- Environmental and Natural Resources policy developers, implementers, and analysts in national and international development agencies.



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- Experts in International organisations.
- Policy analysts.
- Government advisors (Think tanks).

### **QUALIFICATION AWARD AND CERTIFICATION**

#### **Minimum standards of achievement for the award of the qualification**

- A candidate shall be eligible for the award of the qualification of Master of Public Administration (Environmental Resources Management) upon completion of 240 credits.

#### **Certification**

- Candidates meeting prescribed requirements will be awarded the qualification of Master of Public Administration (Environmental Resources Management) upon completion of 240 credits in line with institutional and BQA policies.


### **REGIONAL AND INTERNATIONAL COMPARABILITY**

The MPA (Environmental Resources Management) qualification compares favourably with similar qualifications internationally. This qualification has been benchmarked with the following:

Regionally, the qualification compares with the Master of science Environment and Natural Resource Management from the Africa Nazarene University in Kenya. The degree provides technology-based courses and a number of similar environmental and natural resources courses. Objectives of The Africa Nazarene University include expecting graduates to apply the knowledge they would have acquired in ecological, sociological and economic concepts to the theory and practice of Environmental natural resources management, utilization and conservation. (<https://www.anu.ac.ke/>).

Additionally, it compares with the Master of Environmental Management at North-west University, South Africa still, at regional level. The qualification can be accessed at (<http://natural-sciences.nwu.ac.za/unit-environmental-sciences-and-management/masters-degree>).

Internationally, the qualification compares with the Master's in Environmental and Resource Management

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from the University of Southern Denmark. The University of Southern Denmark offers the Master of Science in Environmental and Resources Management with a cumulative credit value of 166.25 ECTS. The qualification also has an option in quarters 7 and 8 for students to complete some course at other universities or go for internship. ([https://www.sdu.dk/en/uddannelse/kandidat/miljoe\\_og\\_ressource\\_management](https://www.sdu.dk/en/uddannelse/kandidat/miljoe_og_ressource_management)).

### Similarities

- The Africa Nazarene University offers its Master of science Environment and Natural Resource Management qualification in a period of two years.
- The Africa Nazarene University further anticipates that graduates will communicate the acquired knowledge to the stakeholders.
- NorthWest University is similar in that it has more than 150 credits.
- The University of Southern Denmark MPA qualification emphasizes that students develop their analytical skills during the two of study so they can provide solid and well-founded sustainable proposals for a range of environmental and natural resource problems.

### Differences

- The difference is that the Africa Nazarene University qualification provides for less contact hours.
- The difference with the MPA Environmental Management at NorthWest University is that student must have an honours degree to qualify for admission into the Master's degree.
- The Master of Science in Environmental and Resources Management University of Southern Denmark MPA qualification is offered in 8 quarters and has a thesis.
- The qualification for the University of Southern Denmark is based on mandatory courses the first year of study while in the second-year students can combine elective courses, internship in firms or organisations and study abroad to develop their own academic profile.

### REVIEW PERIOD

5 Years.

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