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SECTION A: QUALIFICATION DETAILS


QUALIFICATION DEVELOPER (S)		Botswana Wildlife Training Institute, BWTI										
TITLE	Certificate V in Wildlife Management and Conservation.								NCQF LEVEL	5		
STRANDS (where applicable)	Not Applicable											
FIELD	Agriculture and Nature Conservation		SUB-FIELD	Nature Conservation				CREDIT VALUE	120			
New Qualification				√		Legacy Qualification						
SUB-FRAMEWORK	General Education					TVET			√		Higher Education	
QUALIFICATION TYPE	Certificate	I	II	III	IV	V	√	Diploma	Bachel or			
	Bachelor Honours		Post Graduate Certificate					Post Graduate Diploma				
	Masters					Doctorate/ PhD						

RATIONALE AND PURPOSE OF THE QUALIFICATION

RATIONALE:

As captured in the President's 2019 State of the Nation Address (SONA), the Government of Botswana is committed to the conservation and sustainable utilization of the wildlife resource while ensuring that this resource is adequately managed. The commercial value of natural resources offers prospect for national economic diversification and employment creation through various utilization options such as game ranching and game farming.

The Wildlife Conservation Policy of 1986 established 17% of Botswana's land area as national parks and game reserves and set aside 20% of the land as Wildlife Management Areas (WMAs). WMAs form the basis for wildlife conservation and utilization while the parks and reserves are the foundation for the tourism sector. The revised Wildlife Policy of 2013 recognizes the significant contribution of the wildlife resource to the national economy and

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the livelihoods of communities living with wildlife through the Community Based Natural Resources Management (CBNRM) programme and thus put emphasis on the need for conservation and sustainable utilization of the resource. The policy identifies education and training throughout the wildlife industry as one of the key strategies to achieving conservation and sustainable utilization of the wildlife resource.

Similarly, the National Biodiversity Strategy and Action Plan (NBSAP) of 2016 recognizes biodiversity as the lifeline of most rural communities and therefore important for poverty alleviation and improvement of livelihoods. For the realization of its principles of “Sustainable Development; Integrated Conservation and Development; Equity across generations; and Biodiversity as the Foundation of Life and Livelihoods”, the NBSAP outlines as part of its objectives the need to build capacity of key stakeholders in the implementation and reporting of the NBSAP which includes technical capacity development focused on the wildlife aspect of biodiversity, that directly translates into the proposed qualification.

Through this qualification, candidates will be endowed with broad technical skills and knowledge for sustainable utilization and management of the wildlife resource, the land set aside for wildlife conservation and other natural resources within that land. This qualification target individuals in the wildlife management sector including those already serving in wildlife related establishments. No other Certificate V in Wildlife Management is known to be registered on the NCQF.


PURPOSE:

The purpose of the qualification is to produce graduates with broad technical knowledge, skills and competences to:


- Manage wildlife and their habitats using appropriate methods.
- Manage human-wildlife interactions.
- Conduct law enforcement operations in order to reduce wildlife crimes in accordance with national and international Laws.
- Execute wildlife field exigencies to survive in the wilderness.

MINIMUM ENTRY REQUIREMENTS (including access and inclusion)

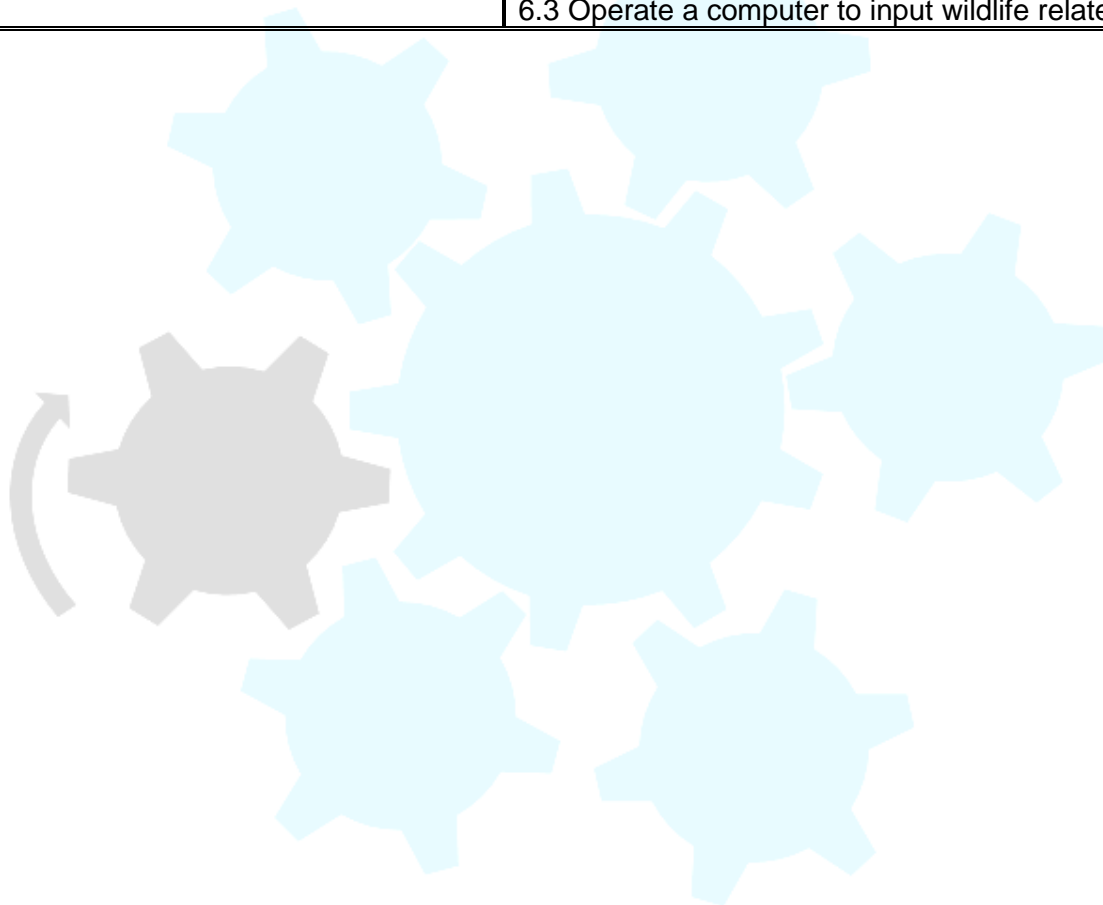
- Certificate IV, NCQF Level
- Admission may also be granted through Recognition of Prior Learning (RPL) in accordance with Institutional and BQA RPL policies.
- Admission may be granted through Credit Accumulation and Transfer (CAT) in accordance with Institutional and BQA CAT policies.


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SECTION B		QUALIFICATION SPECIFICATION	
GRADUATE PROFILE (LEARNING OUTCOMES)		ASSESSMENT CRITERIA	
1. Manage wildlife resources in their natural habitats.		1.1 Estimate wildlife populations using broad range of techniques. 1.2 Visually assess the body condition of wildlife. 1.3 Harvest wildlife products for preservation and utilization using wide range of technical skills.	
2. Manage wildlife habitats using applicable methods.		2.1 Assess wildlife habitats conditions using a broad range of techniques. 2.2 Recommend suitable habitats for wildlife utilization. 2.3 Apply relevant knowledge and skills to manipulate wildlife habitats.	
3. Attend to human-wildlife interactions issues using extensive methods.		3.1 Plan and supervise the control of animals causing damage using broad preventive and reactive methods. 3.2 Interpret legislative instruments that direct control of problem animals. 3.3 Communicate effectively with stakeholders to address issues of human wildlife interactions.	
4. Apply National and International Laws in order to reduce wildlife crimes and related offences.		4.1 Execute wildlife law enforcement operations within the limits of National and International Laws. 4.2 Interpret policies related to Wildlife Act in Botswana. 4.3 Apply National and International laws and treaties in relation to conservation of wildlife resources. 4.4 Advise policy formulation in relation to wildlife management.	
5. Apply survival intelligence skills in the wilderness.		5.1 Apply health, safety, and security protocols during field operations in the wilderness. 5.2 Manage unforeseen complex occurrences during field operations in the wilderness. 5.3 Interpret and react appropriately to the behaviour of potentially dangerous wild animals to prevent negative human-wildlife interaction. 5.4 Navigate in the wilderness using technological devices and natural features.	
6. Analyse and present complex wildlife related		6.1 Collect wildlife and habitat related data using a wide	


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data using statistical tools and computer applications to advice conservation decisions.	range of methods. 6.2 Analyse wildlife data using simple statistics. 6.3 Operate a computer to input wildlife related data.
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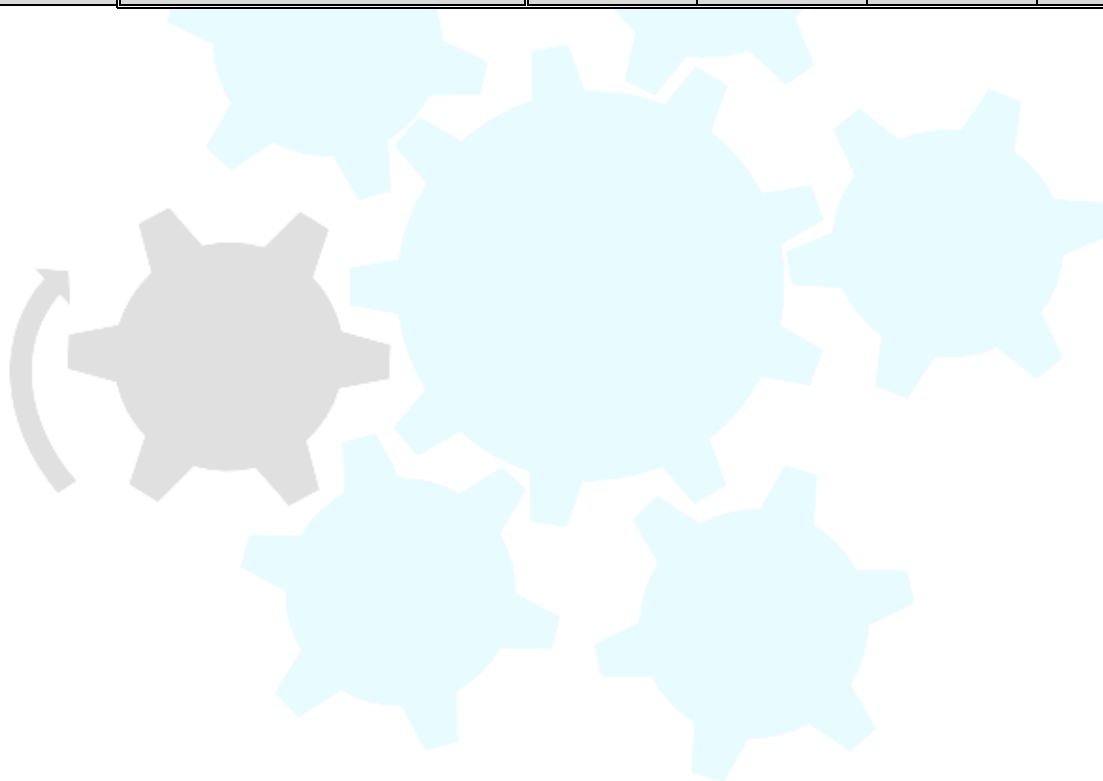



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SECTION C	QUALIFICATION STRUCTURE				
COMPONENT	TITLE	Credits Per Relevant NCQF Level			Total Credits
		Level [4]	Level [5]	Level [6]	
FUNDAMENTAL COMPONENT <i>Subjects/ Courses/ Modules/Units</i>	Wilderness Operational skills	-	14	-	14
	Wilderness survival skills	-	14	-	14
	Computer skills	-	8	-	8
	Public Relations	-	8	-	8
	Conservation Legislation	-	-	10	10
CORE COMPONENT <i>Subjects/Courses/ Modules/Units</i>	Statistics for wildlife management	-	8	-	8
	Problem Animal Control Procedures	-	10	-	10
	Vertebrates of Southern Africa	-	10	-	10
	Invertebrates Zoology	-	10	-	10
	Principles of Ecology	-	6	-	6
	Wildlife Management and Utilization	-	14	-	14
	Flora of Southern Africa	-	8	-	8
STRANDS/ SPECIALIZATION	<i>Subjects/ Courses/ Modules/Units</i>	Credits Per Relevant NCQF Level			Total Credits


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NOT APPLICABLE					
		<i>Level [4]</i>	<i>Level [5]</i>	<i>Level [6]</i>	



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SUMMARY OF CREDIT DISTRIBUTION FOR EACH COMPONENT PER NCQF LEVEL	
TOTAL CREDITS PER NCQF LEVEL	
NCQF Level	Credit Value
5	110
6	10
TOTAL CREDITS	120
Rules of Combination: (Please Indicate combinations for the different constituent components of the qualification)	
Candidates should take and pass all core modules (68 credits) and all fundamental modules (52 credits).	

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ASSESSMENT ARRANGEMENTS

- Formative assessment contributes 60% of the final grade.
- Summative assessment contributes 40% of the final grade.

MODERATION ARRANGEMENTS

Internal Moderation

Both Summative and Formative assessments shall be subjected to internal moderation processes for quality assurance by BQA registered Institute Moderators.

External Moderation

Summative assessment shall be subjected to external moderation by qualified and BQA registered Moderators for quality assurances.

Criteria for selection of assessors and moderators

BQA registered Assessors and Moderators with a minimum of a diploma qualification in Wildlife Management, Tourism, Nature Conservation or related training and experience will be engaged to facilitate both training, assessment and moderation requirements in this qualification.

RECOGNITION OF PRIOR LEARNING

Recognition of Prior Learning (RPL) will be administered in accordance with Institutional and BQA RPL policies.

CREDIT ACCUMULATION AND TRANSFER

Credit Accumulation and Transfer (CAT) will be administered in accordance with Institutional and BQA CAT policies.

PROGRESSION PATHWAYS (LEARNING AND EMPLOYMENT)

Academic progression


The successful graduates of this qualification can articulate vertically and horizontally as follows:

Vertically

- Diploma in Wildlife Management.
- Diploma in Nature Conservation.
- Diploma in Conservation Ecology.
- Diploma in Game Ranch Management.

Horizontally

- Certificate V in Nature Conservation in Implementation and Leadership.
- Certificate V in Conservation Ecology.
- Certificate V in Wildlife Management.

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Employment pathways

Graduates of Certificate V in Wildlife Management and Conservation can seek employment as a:

- Wildlife ranger or Park ranger.
- Community Based Nature and Heritage Conservationist.
- Game farm and game ranch managers.
- Research assistants.
- Game captures.
- Environmental practitioner.

QUALIFICATION AWARD AND CERTIFICATION

Candidate will be awarded Certificate V in Wildlife Management and Conservation and issued with a certificate upon completion of a minimum of 120 credits.

SUMMARY OF REGIONAL AND INTERNATIONAL COMPARABILITY

This qualification was compared against the qualifications presented below and the observations are:

1. Higher Certificate in Nature Conservation in Implementation and Leadership, Southern African Wildlife College (South Africa).

This is a one year South African National Qualification Framework (NQF) Level 5 qualification requiring a minimum NQF Level 4 entry requirement. (South African Qualifications Authority – SAQA); (<https://allqs.saqa.org.za/showQualification.php?id=80929>).

Similarities


The proposed qualification has minimum entry requirement of NCQF Level 4 similar to Higher Certificate in Nature Conservation in Implementation and Leadership with a minimum entry level of NQF Level 4. Both qualifications have similar modules; Basic Ecology, Vegetation Studies (Flora of Southern Africa), Animal Studies (vertebrates and invertebrates zoology), Conservation Law Enforcement, Computer Literacy (Computer Skills) and Conservation Management (Wildlife Management).

Differences

Higher Certificate in Nature Conservation in Implementation and Leadership has modules; Principles of Personnel Management, Philosophy and Ethics of Conservation, Cultural heritage management, Environmental Education and Introduction to Eco-Tourism which are not part of the proposed qualification. The benchmarked qualification does not have Field Skills modules (Wilderness Operational skills and Wilderness survival skills).

2. Higher Certificate in Conservation Ecology, Academy for Environmental Leadership (South Africa).

This is a one year South African National Qualification Framework (NQF) Level 5 qualification with 120

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credits requiring a minimum NQF Level 4 entry requirement. (South African Qualifications Authority – SAQA); (<https://allqs.saqa.org.za/showQualification.php?id=99625>).

Similarities

The proposed qualification has minimum entry requirement of NCQF Level 4 similar to Higher Certificate in Conservation Ecology with a minimum entry level of NQF Level 4. Both qualifications have 120 credits; they also have similar modules; Legislation Framework, Conservation Ecology, Data Collection (statistics), Communication Skills (Public Relations) and Conflict Management (Problem Animal Control procedures).

Differences

However, Higher Certificate in Conservation Ecology has Implementation and Execution, Mechanisms for dealing with Environmental and Personal development which are not part of the proposed qualification. The benchmarked qualification does not have Wilderness Operational skills, Wilderness survival skills and Animal Studies (Vertebrates of Southern Africa and Invertebrates Zoology).

3. Technical Certificate in Wildlife Management, College of African Management, MWEKA (Tanzania).

This is Tanzanian National Technical Awards (NTA) Level 5 qualification with 123 credits and minimum entry requirement of Basic Technician Certificate IV (NTA Level 4) in Wildlife Management, Wildlife Tourism, Beekeeping, Forestry, Fisheries, Livestock Production, Agriculture and Law Enforcement. (The National Council for Technical and Vocational Education and Training – NACTVET); (https://www.mwekawildlife.ac.tz/program_tcwm.php).


Similarities

The proposed qualification has minimum entry requirement of NCQF Level 4 similar to Technical Certificate in Wildlife Management with a minimum entry level of NTA Level 4. Both qualifications have similar modules; Wildlife Management Techniques, Wildlife Utilization, Paramilitary Techniques (Wilderness Survival Skills and Wilderness Operational Skills), Conservation Policies (Conservation Legislation) and Fundamentals of Research (Wildlife Statistics). The assessment weightings between the two qualifications are also identical (60% for formative assessment and 40% for summative assessment).

Differences

The proposed qualification does have modules Fundamentals of Tourism, Fundamentals of Habitat Management, Basic Supervisory Skills, Captive Wildlife Management and Translocation, Community- Based Conservation and Fundamentals of Wildlife Entrepreneurship. The benchmarked qualification does not have modules Problem Animal Control Procedures, Flora of Southern Africa, Vertebrates of Southern Africa, Principles of Ecology, Public Relations and Computer Studies.

4. Certificate in Wildlife and Natural Resources Management, Uganda Wildlife Research and Training

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Institute (Uganda).

This is an East African Qualification Framework for Higher Education (AEAQFHE) qualification with minimum entry requirements of an O'level certificate with at least three passes in English, Mathematics and Biology (The inter-University council for East Africa- IUCEA); (<http://uwrti.ac.ug/certificate-in-wildlife-and-natural-resource-management-cwm/>).

Similarities

The proposed qualification share similar modules with Certificate in Wildlife and Natural Resources Management; these modules are Statistics, Wildlife Management, Ecology, Human Wildlife Conflict (Problem Animal Control Procedures), Wildlife Biology (Vertebrates of Southern Africa and Invertebrates Zoology), Health and Safety in Conservation (Wilderness Survival skills) and Field Patrols (Wilderness Operational skills). Both certificates require 120 credits for award and certification.

Differences

The benchmarked qualification is a two year certificate while the proposed certificate is a completed in one year.

Comparability and articulation of the proposed qualification with the ones examined.

Horizontal articulation: Higher Certificate in Nature Conservation in Implementation and Leadership NQF Level 5, Higher Certificate in Conservation Ecology NQF Level 5, Technical Certificate in Wildlife Management NTA Level 5 and Certificate in Wildlife and Natural Resources Management.

Vertical articulation: Diploma in Wildlife and Natural Resources Management, Diploma in Wildlife Management NTA Level 6 and National Diploma in Nature Conservation NQF Level 6.

REVIEW PERIOD

This qualification shall be reviewed after five years from the date of registration.