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SECTION A: QUALIFICATION DETAILS													
QUALIFICATION DEVELOPER (S)		Botswana Wildlife Training Institute											
TITLE	Diploma in Wildlife Management and Conservation.										NCQF LEVEL	6	
STRANDS (where applicable)	1. Animal Studies. 2. Wildlife Law Enforcement. 3. Protected Area Management.												
FIELD	Agriculture and Nature Conservation			SUB-FIELD		Nature Conservation				CREDIT VALUE	3 6 0		
New Qualification						√		Legacy 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							

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

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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 the livelihoods of communities living with wildlife through the Community Based Natural Resources Management (CBNRM) program 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. 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 which directly translates into the proposed qualification.

Through this qualification candidates will be able to select and apply advanced knowledge and technical skills for sustainable management and utilization 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 Diploma in Wildlife Management and Conservation is known to be registered on the NCQF.


PURPOSE: (itemise exit level outcomes)

The purpose of the qualification is to produce graduates with advanced knowledge, skills and competencies to:

- Manage wildlife resources sustainably.
- Solve complex issues relating to negative human-wildlife interactions.
- Conduct law enforcement operations in order to reduce wildlife crimes in accordance with national and international Laws.
- Process wildlife related data using advanced technology to inform decisions relating to wildlife management.
- Use advanced knowledge and skills to lead wildlife field operations safely in the wilderness.

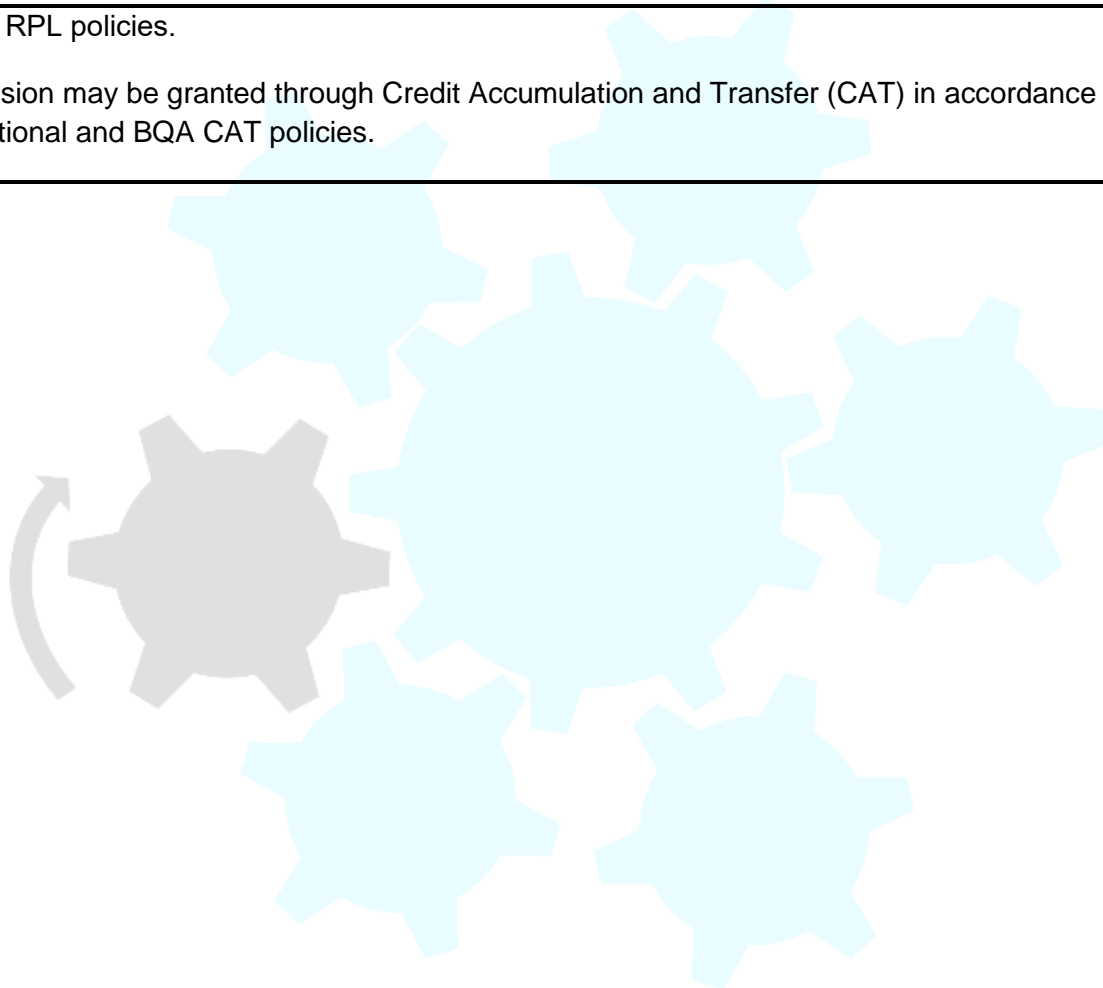
MINIMUM ENTRY REQUIREMENTS (including access and inclusion)


- Certificate IV, NCQF Level 4.
- Admission may also be granted through Recognition of Prior Learning (RPL) in accordance with BQA and

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ETP's 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 the wilderness.		1.1 Monitor wildlife populations in the wilderness using different techniques. 1.2 Set harvestable quotas for animal species for wildlife management purpose. 1.3 Harvest and process wildlife products for preservation and utilization. 1.4 Mitigate conflict arising from negative interactions between people and wildlife. 1.5 Communicate effectively with stakeholders to address issues relating to wildlife management.	
2. Use appropriate methods to manage wildlife habitats.		2.1 Assess habitat requirements for different wildlife species. 2.2 Assess the carrying capacity of a wildlife habitat to advice management decisions. 2.3 Map the abundance and distribution of animals and plants in their habitat using appropriate tools. 2.4 Analyse the human impacts on natural resources with a view to maintaining wildlife habitats. 2.5 Evaluate wildlife habitat productivity for wildlife management purposes.	
3. Apply National and International Laws in order to reduce wildlife crimes and related offences.		3.1 Execute wildlife law enforcement operations within the limits of National and International Laws. 3.2 Interpret policies related to Wildlife Act in Botswana. 3.3 Apply National and International laws and treaties in relation to conservation of wildlife resources. 3.4 Advise policy formulation in relation to wildlife management.	
4. Apply advanced technical survival and intelligence knowledge and skills in the wilderness.		4.1 Lead team members during wildlife management patrols in the wilderness. 4.2 Display field endurance and discipline in the wilderness. 4.3 Apply specialized knowledge and skills to manage unpredictable and complex behaviours of wild	

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	<p>animals in the wilderness.</p> <p>4.4 Apply first aid skills to casualties in the wilderness.</p> <p>4.5 Operate radio communication systems under different field conditions.</p>
5. Analyse wildlife data to advice decision making.	<p>5.1 Develop a database and input data relating to wildlife management.</p> <p>5.2 Interpret wildlife data to generate solutions to unpredictable and complex problems.</p> <p>5.3 Analyse wildlife related data using advanced statistical packages.</p> <p>5.4 Use specialized information technology to reinforce presentations and reports of wildlife management.</p>
6. Use computer aided software and tools to generate wildlife data	<p>6.1 Use geographic information system for imputing wildlife related data.</p> <p>6.2 Use remote sensing to describe wildlife parameters.</p> <p>6.3 Produce a wildlife management map using GIS/ remote sensing.</p>

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SECTION C	QUALIFICATION STRUCTURE				
COMPONENT	TITLE	Credits Per Relevant NCQF Level			Total Credits
		Level [5]	Level [6]	Level [7]	
FUNDAMENTAL COMPONENT <i>Subjects/ Courses/ Modules/Units</i>	Wilderness Operational skills I	14	-	-	14
	Wilderness Operational skills II	-	20	-	20
	Wilderness Survival Skills I	14	-	-	14
	Wilderness Survival Skills II	-	15	-	15
	Computer Skills	8	-	-	8
	Public Relations I	8	-	-	8
	Database for Wildlife Management	-	-	5	5
	GIS and Remote Sensing	5	-	-	5
CORE COMPONENT <i>Subjects/Courses/ Modules/Units</i>	Statistics for wildlife management I	8	-	-	8
	Statistics for wildlife management II	-	10	-	10
	Problem Animal Control Procedures	10	-	-	10
	Vertebrates of Southern Africa	10	-	-	10

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	Invertebrates Zoology	10	-	-	10
	Principles of Ecology	6	-	-	6
	Wildlife Management and Utilization	14	-	-	14
	Flora of Southern Africa	8	-	-	8
	Comparative Zoology	-	20	-	20
	Wildlife Ecology	-	10	-	10
	Behavioral Ecology	-	-	15	15
	Wildlife Management Techniques	-	20	-	20
	Conservation Legislation	-	10	-	10
	Research Methods	-	10	-	10
	Internship	-	30	-	30
STRANDS/ SPECIALIZATION	<i>Subjects/ Courses/ Modules/Units</i>	Credits Per Relevant NCQF Level			Total Credits
		Level [5]	Level [6]	Level [7]	
1. Animal studies	Mammalogy	-	10	-	10
	Ornithology	-	10	-	10
	Fisheries Science	-	10	-	10
	Herpetology	-	10	-	10
	Animal Health and Diseases	-	10	-	10

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	Botany for Wildlife Management	-	10	-	10
	Natural Resource Economics	-	10	-	10
	Contemporary Environmental Issues	-	10	-	10
2. Law Enforcement	Public Relations II	-	10	-	10
	Human Wildlife Interactions	-	15	-	15
	Patrol Planning	-	10	-	10
	Bush Craft and Survival Skills	-	10	-	10
	Weapon Training	-	20	-	20
	Wildlife Utilization	-	15	-	15
3. Protected Area Management	Climate Change	-	10	-	10
	Wildlife Habitat Management	-	10	-	10
	Natural Resources Interpretation	-	10	-	10
	Tourism	-	10	-	10
	Protected Area Management	-	15	-	15
	Protected Area Planning	-	15	-	15
	Fire Management	-	10	-	10

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SUMMARY OF CREDIT DISTRIBUTION FOR EACH COMPONENT PER NCQF LEVEL	
TOTAL CREDITS PER NCQF LEVEL	
NCQF Level	Credit Value
5	115
6	225
7	20
TOTAL CREDITS	360
Rules of Combination: (Please Indicate combinations for the different constituent components of the qualification)	
<p>Candidates should take all fundamental and core courses. All the fundamental courses add up to 89 credits and core course add up to 191 credits. A further 80 credits is required from strands (specialization modules) to make up 360 credits.</p>	

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ASSESSMENT ARRANGEMENTS

There will be an integrated assessment which will include both formative and summative assessments. The weighting for formative assessment is (60%) and for summative assessment (40%).

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 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 degree 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

- Bachelor of Science in Wildlife Management.
- Bachelor of Science in Nature Conservation.
- Bachelor of Science in Conservation Ecology.
- Bachelor of Science in Ranch Management.

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Horizontally

- Diploma in Nature Conservation.
- Diploma in Conservation Ecology.
- Diploma in Game Ranching.

Employment pathways

Graduates of Diploma 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 Diploma in Wildlife Management and Conservation and issued with a certificate after completion of minimum 360 credits.

SUMMARY OF REGIONAL AND INTERNATIONAL COMPARABILITY

Regional comparability

The proposed qualification was compared with similar or equivalent qualifications from several institutions locally, regionally and internationally (*See attached comparability matrix*).

Local comparability


Locally there is no registered ETP that offers Wildlife Management and Conservation qualification at diploma level.

Regional comparability

Regionally there are a good number of institutions that offer Diploma in Wildlife Management and Conservation or related qualification notably the Tshwane University of Technology which offers both Diploma in Wildlife Management (<https://regqs.saqa.org.za/viewQualification.php?id=115551>) and Diploma in Nature Conservation (<https://regqs.saqa.org.za/viewQualification.php?id=112485>), Nelson Mandela University that offers Diploma in Game Ranch Management (<https://regqs.saqa.org.za/viewQualification.php?id=97096>) and College of African Management, MWEKA in Tanzania that offer Diploma In Wildlife Management (https://www.mwekawildlife.ac.tz/program_odwm.phd).

International comparability

Internationally there are no institutions offering Wildlife Management and Conservation qualifications at diploma level.

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Similarities

These qualifications have many common modules: computer literacy, Wildlife Management, wildlife ecology, animal studies (zoology), botany and wildlife utilization cut across most of the qualifications. Credit value for South African qualifications is also 360 credits.

Differences

All qualifications compared to the proposed are offered under Higher Education (HE) while the proposed will be under the TVET sub-framework.

REVIEW PERIOD

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