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|  | BQA NCQF QUALIFICATION TEMPLATE | Document No. | DNCQF.P01.GD02 |
| | | Issue No. | 01 |
| | | Effective Date | 01.08.2022 |

| SECTION A: QUALIFICATION DETAILS | | | | | | | | | | | | | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------|---|--------------------------------------|---------------------------|----------------|-------------------------------------------------|----------------------|-----------------------|------------|------------------|---|-----|--|
| QUALIFICATION DEVELOPER (S) | | | | BOTSWANA WILDLIFE TRAINING INSTITUTE | | | | | | | | | | |
| TITLE | | Diploma in Natural Resource Utilisation and Extension | | | | | | | | NCQF LEVEL | | 6 | | |
| STRANDS (where applicable) | | 1. 2. 3. 4. | | | | | | | | | | | | |
| FIELD | | Natural, Mathematical and Life Sciences | | | SUB-FIELD | | Social Sciences/Environment Management sciences | | | | CREDIT VALUE | | 240 | |
| 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 | | | | | | | | | | | | | | |
| <p>RATIONALE: Vision 2036 aims to elevate Botswana from an upper-middle income economy to high income status thereby achieving prosperity for all. The Vision recognises the contribution of natural resources to economic development and community livelihoods. As a result, significant strides have been made to conserve the environment by setting aside about 25% of the total land area for purposes of conservation (https://www.worldatlas.com/articles/which-countries-are-the-best-in-wildlife-conservation.html). Furthermore, two sites, Tsodilo Hills and the Okavango Delta, have been listed as World Heritage Sites. (UNESCO, World Heritage</p> | | | | | | | | | | | | | | |

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Convention). The country is also endowed with large and diverse wildlife resources which inadvertently result in human-wildlife conflict and rangelands degradation.

The country continues to struggle to deal with issues of human-wildlife conflict that emanates mainly from shared resources. Statistics from the Department of Wildlife and National Parks shows that reports on man and wildlife conflict continue to grow on annual basis despite measures that have been put in place to try to mitigate the effects of the conflict. Measures such as compensation have proven to be unsustainable in the long term. (<https://.car.org.bw>MFMP-Vol-2-Chapter-5-wildlife.pdf>). This therefore, calls for promotion of coexistence between man and wildlife which can only be achieved by winning the support of local communities to participate in finding lasting solutions to their challenges rather than being prescriptive as has been the case. Such challenges could curtail the achievement of Vision 2036 at local community level.

For Botswana to achieve the aspirations of Vision 2036 of; Sustainable Economic Development, Human and Social Development and Sustainable Environment, there is need to have a technically skilled team of extension workers that could drive the transformation of rural economies and livelihoods through playing a facilitative role. This qualification seeks to produce well-grounded graduates with technical skills and knowledge of rural economies and social structures that underpin local livelihoods. Provision of extension services demands individuals who are able to effectively disseminate information on government policies through robust communication strategies that recognise social stratification, cultural beliefs, values, religion and political orientation of local communities.

This qualification will further enable candidates to provide technical advice on issues of human-wildlife conflict and on sustainable utilisation of natural resources to uplift rural communities' livelihoods with the aim of fostering human-wildlife coexistence.

PURPOSE: (itemise exit level outcomes)


The purpose of the qualification is to equip graduates with advanced knowledge, skills and competences to:

- Implement an integrated natural resource projects that improve the livelihoods of the community.
- Promote community development through appropriate extension approaches by providing technical services in area of work.
- Facilitate integration of natural resources use into regional development plans.

MINIMUM ENTRY REQUIREMENTS (including access and inclusion)


- Minimum of NCQF Level 4 Certificate IV or equivalent qualification.
- Admission may also be granted through Recognition of Prior Learning (RPL) according to ETP RPL policies aligned to RPL national policies.
- Admission may also be granted through Credit Accumulation Transfer (CAT) according to ETP CAT policies aligned to CAT national policies.

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| SECTION B QUALIFICATION SPECIFICATION | |
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| GRADUATE PROFILE (LEARNING OUTCOMES) | ASSESSMENT CRITERIA |
| 1. Facilitate community development by use of appropriate extension approaches. | 1.1 Use print media to facilitate community development. 1.2 Disseminate information services to the community through a radio program. 1.3 Provide technical services to local communities through kgotla meetings. 1.4 Communicate effectively to disseminate information to local communities |
| 2. Manage integrated community projects that improve the livelihoods of communities. | 2.1 Implement government policies at local community level. 2.2 Apply participatory approaches in community development. 2.3. Design an extension programme to facilitate community development. 2.4 Demonstrate leadership and organisational skills in the workplace. 2.5 Apply principles of budgeting and procurement in project management. |
| 3. Apply appropriate natural resource management techniques to address human-wildlife interactions | 3.1 Control problem animals in communal lands. 3.2 Educate community on human wildlife interaction measures. |
| 4. Promote sustainable utilization of natural resource by local communities. | 4.1 Facilitate setting up and operating natural resource related business enterprises. 4.2 Mobilise local communities to benefit from natural resource utilization. 4.3 Educate local communities on sustainable utilisation of natural resources. |
| 5. Apply survival skills to extinguish wild animal aggression in the wilderness. | 4.1 Apply skills to avoid encounters with potentially dangerous animals. 4.2 Handle a rifle to protect oneself against dangerous animals. 4.3 Use technological devices and natural features to navigate in the wilderness. |


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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> | ICT for Extension Workers | | 10 | | 10 |
| | Weapon Handling | | 10 | | 10 |
| | General Statistics | 10 | | | 10 |
| | Animal Behavioural Ecology | | 10 | | 10 |
| | Communication and Study skills | 10 | | | 10 |
| | Conservation Legislation | | 10 | | 10 |
| | | | | | |
| CORE COMPONENT <i>Subjects/Courses/ Modules/Units</i> | Leadership and organisational skills | | | 10 | 10 |
| | Community Extension Work | 10 | | | 10 |
| | Adult Education | | | 10 | 10 |
| | CBNRM | | 10 | | 10 |
| | Environmental Policies | 5 | | | 5 |
| | Environmental Education | | 10 | | 10 |
| | Project Management | | | 10 | 10 |

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| | Rural Development | | 10 | | 10 |
| | Budgeting and Procurement | 5 | | | 5 |
| | Participatory Approaches | | 15 | | 15 |
| | Rural Sociology | | | 10 | 10 |
| | Public Relations | 5 | | | 5 |
| | Rural Economics | | | 10 | 10 |
| | Rural Geography | | 10 | | 10 |
| | Human-Wildlife Interactions | | 10 | | 10 |
| | Wildlife Management and Utilization | | 10 | | 10 |
| | Internship | | 30 | | 30 |
| STRANDS/ SPECIALIZATION | <i>Subjects/ Courses/ Modules/Units</i> | Credits Per Relevant NCQF Level | | | Total Credits |
| | | Level [] | Level [] | Level [] | |
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| SUMMARY OF CREDIT DISTRIBUTION FOR EACH COMPONENT PER NCQF LEVEL | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| TOTAL CREDITS PER NCQF LEVEL | |
| NCQF Level | Credit Value |
| 5 | 45 |
| 6 | 145 |
| 7 | 50 |
| TOTAL CREDITS | 240 |
| Rules of Combination: (Please Indicate combinations for the different constituent components of the qualification) | |
| This qualification consists of 45 credits at level 5, 145 credits at level 6 and 50 credits at level 7 making a total of 240 credits. Candidates are expected to take and pass all fundamentals at 60 credits, and core components at 180 credits. This qualification does not have any strands. | |

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ASSESSMENT ARRANGEMENTS

Formative assessment (60%) and summative assessment (40%)

MODERATION ARRANGEMENTS

There shall be provision for both Internal and External moderation arrangements for the qualification done by BQA registered and accredited moderators.

RECOGNITION OF PRIOR LEARNING

Recognition of Prior Learning (RPL) may be considered in awarding the qualification in accordance with BQA and ETP's policies.

CREDIT ACCUMULATION AND TRANSFER

Credit Accumulation and Transfer (CAT) may be considered in awarding the qualification in accordance with BQA and ETP's CAT policies.

PROGRESSION PATHWAYS (LEARNING AND EMPLOYMENT)

Horizontal articulation

This qualification will allow for admission into other related vocational field in Agriculture such as;


- Diploma in Nature Conservation
- Diploma in Wildlife Management
- Diploma in Agriculture Level 6

Vertical articulation

- BSc: Wildlife Management
- B Tech: Nature Conservation
- Bachelor of Agricultural Production and Management.
- Bachelor of Science Honours: Agriculture: Agricultural Extension.

Employment pathways

Even though the qualification names are different, graduates of these qualifications have similar/ equal job opportunities in the industry. They can work as:

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- Extension practitioners
- Extension Officers, Advisors or Community Development Officers
- Extension Agents
- Game Wardens
- Senior Field Rangers
- Biological technician
- Forestry technician
- Fish and wildlife technician

QUALIFICATION AWARD AND CERTIFICATION

Candidate will be awarded a Diploma in Natural Resource Utilisation and Extension and issued with a Certificate of competency after successful attainment of 240 credits.

SUMMARY OF REGIONAL AND INTERNATIONAL COMPARABILITY

The proposed qualification was benchmarked 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 Natural Resource Utilisation and Extension qualification.

Regional comparability

This proposed qualification was benchmarked regionally with Diploma in Nature Conservation from Nelson Mandela University in South African, Diploma in Wildlife and Forestry Management from Nkumba University in Uganda, Diploma in Nature Conservation from University of Mpumalanga also in South Africa.

International comparability


Internationally there is no institution that offers Diploma in Natural Resource Utilisation and Extension, but It was benchmarked with Integrated Resource Management Diploma from Saskatchewan Polytechnic in Canada.

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

1. Diploma in Nature Conservation, Nelson Mandela University (South Africa)

This is a Level 6 qualification with 362 credits ,and the duration is 3 years

Similarities

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Both qualifications offer similar modules such as ICT, Conservation Legislation and Environmental Education

Differences

Though benchmarking was made with this qualification, the names are not the same.

The proposed qualification has 240 credits, while Nelson Mandela University has 362 credits. Some of the modules in the proposed qualification are not offered at Nelson Mandela University.

2. Diploma in Wildlife and Forestry Management, Nkumba University (Uganda)

The level and credits are not stated, but the duration is 2 years

Similarities

Both qualifications offer similar modules such as ICT, Extension work/ Work experience/ Industrial Training/ Internship, Community-based Natural Resource Management, Environmental Education and Wildlife Management and Utilisation

Differences

Though benchmarking was made with this qualification, the names are not the same. Some of the modules in the proposed qualification are not offered at Nkumba University.

3. Diploma in Nature Conservation, University of Mpumalanga (South Africa)

This is a Level 6 qualification with 360 credits ,and the duration is 3 years

Similarities

Both qualifications offer similar modules such as ICT, Conservation Legislation **and** Human Wildlife Interactions

Differences

Though benchmarking was made with this qualification, the names are not the same. Some of the modules in the proposed qualification are not offered at University of Mpumalanga. The proposed qualification has 240 credits, while University of Mpumalanga has 360 credits.

4. Integrated Resource Management Diploma, Saskatchewan Polytechnic (Canada)


The level is not stated in this qualification, credits are 103 ,and the duration is 2 years

Similarities

Both qualifications offer similar modules such as ICT, Statistics, Conservation Legislation and Extension work. The duration of the course is 2years.

Differences

Though benchmarking was made with this qualification, the names are not the same. Some of the modules in the proposed qualification are not offered at Saskatchewan Polytechnic. The proposed qualification has 240 credits, while Saskatchewan Polytechnic has 102 credits.

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REVIEW PERIOD

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

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