

BQA NCQF Qualification Template

DNCQF.FDMD.GD04

Issue No.: 01

QUALIFICATION SPECIFICATION

SECTION A

QUALIFICATION DEVELOPER	Ministry of Employment, Labour Productivity and Skills Development					
TITLE	Certificate III In Livestock Farming and Management				NCQF LEVEL	3
FIELD	Agriculture and Nature Conservation	SUBFIELD:	Livestock Farming and Management			
New qualification		✓	Review of existing qualification			
SUB-FRAMEWORK	General Education		TVET	✓	Higher Education	
QUALIFICATION TYPE	Certificate	✓	Diploma		Bachelor	
	Bachelor Honours		Master		Doctorate	
CREDIT VALUE	40				LEVEL 3	

RATIONALE AND PURPOSE OF THE QUALIFICATION

Rationale

The Human Resource Council (HRDC 2016)) report on top occupations in demand has identified Farm managers and workers as one of the priority skills for the Agriculture Sector. This curriculum is intended to address the HRDC recommendations which amongst others advocates for curriculum and programme development aligned to the top occupations in high demand identified by the employer in the agriculture sector, livestock section namely farm managers and farm workers to improve their quality and job readiness.

The United Nations report of 2011 posits that majority of livestock farmers in Botswana are small-scale farmers who typically need continued assistance in capacity building to commercialize farming. As such, an effective and vibrant extensive service is an important input in improving the performance of the sector and its resilience to market and climate change. According to Hulela and Miller (2003) education plays a vital role in the field of agriculture considering many variables that a farmer has to contend with in order to produce a good livestock production enterprise. The author further states that for farmers to achieve and maintain good quality production they need to be equipped with adequate and applicable knowledge. Therefore, it is crucial

for the Technical Education and Vocational Training to equip farmers with the relevant knowledge and skills to keep up to speed with growing livestock demands and challenges.

The Botswana Country Commercial Guide of 2019 shows that Agriculture comprises 2% of the GDP with Livestock farming contributing 80% of the Agricultural GDP. The guide continues to advocate for the development of modern farming and processing industries hence the need to develop a curricula catering for the new technologies. Graduates of this qualification would be able to patrol, inspect and report on the condition of livestock providing livestock with feeds and water and assisting with maintaining the health and welfare of livestock.

Purpose

The purpose of the qualification is to produce graduates with competence to;

- Use appropriate tools for a specific function in Livestock Farming.
- Perform Disease Diagnosis and drug administration to Control diseases.
- Apply knowledge and understanding of socio-economic significance of livestock rearing.

ENTRY REQUIREMENTS (including access and inclusion)

- NCQF level 2 or any equivalent qualification.
- There is provision for entry through RPL.

QUALIFICATION		SPECIFICATION
SECTION B		
GRADUATE PROFILE (LEARNING OUTCOMES)	ASSESSMENT CRITERIA	
1.0 Communicate with clients, colleagues and others using appropriate forms of communication techniques.	1.1 Use written, verbal, non-verbal communication appropriate to the target audience. 1.2 Interpret stipulated instructions or requirements. 1.3 Apply information acquired in the performance of tasks or	

	<p>discussions with other people.</p> <p>1.4 Apply relevant definitions, terminology, abbreviations and language.</p> <p>1.5 Present information using appropriate language and formats.</p> <p>1.6 Use appropriate presentation formats and styles of writing to produce error free business documents.</p>
2.0 Use ICT for information retrieval and processing as well as communication and collaboration with others	<p>2.1 Manage information using ICT.</p> <p>2.2 Organize and synthesize information using ICT.</p> <p>2.3 Implement data loss prevention strategies using ICT.</p> <p>2.4 Present information in a variety of formats using ICT.</p>
3.0 Apply knowledge and understanding of socio-economic significance of livestock rearing.	<p>3.1 Demonstrate understanding of stock management processes to optimize production in accordance with established codes of practice.</p> <p>3.2 Manage different livestock enterprises (Beef production, Dairy production, Small-stock production, Pig production and Poultry production).</p> <p>3.3 Observe safety measures for all activities carried out in livestock enterprises.</p>
4.0 Use appropriate tools for a specific function in Livestock Farming.	<p>4.1 Examine the nature of the work to be done to determine tools / equipment to be used.</p> <p>4.2 Observe safety measures in all activities.</p> <p>4.3 Identify the appropriate restraining method to be used.</p> <p>4.4 Use appropriate tools and equipment for a specific activity.</p> <p>4.5 Perform quality checks on the work done and make improvement where applicable.</p> <p>4.6 Clean and store tools and equipment appropriately according to organizational requirements</p>
5.0 Perform Disease Diagnosis	<p>5.1 Carry out clinical examination.</p>

and drug administration to Control diseases.	<p>5.2 Identify swellings and wounds.</p> <p>5.3 Determine drug choice based on the diagnosis.</p> <p>5.4 Use an appropriate route of drug administration.</p> <p>5.5 Administer the drug in line with the manufacturer's Instructions / specifications.</p>
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QUALIFICATION STRUCTURE				SECTION C
FUNDAMENTAL COMPONENT Subjects / Units / Modules /Courses	Title	Level	Credits	
	Communication Skills	3	3	
	Information and Communication Technology (ICT)	3	3	
CORE COMPONENT Subjects / Units / Modules /Courses	Introduction to Livestock Farming	3	12	
	Livestock Farming tools and equipment	3	12	
	Basic Disease Diagnosis and drug administration	3	5	
	Anatomy and Physiology of farm animals	3	5	
ELECTIVE COMPONENT Subjects / Units / Modules /Courses				
RULES OF COMBINATIONS, CREDIT DISTRIBUTION (where applicable):				
<p>A candidate is required to achieve a minimum of 40 credits for the qualification inclusive of 6 for fundamentals to be eligible for the award of the qualification.</p>				

ASSESSMENT AND MODERATION ARRANGEMENTS

Formative assessment

The contribution of formative assessment to the final grade shall be 60%.

Summative assessment

The final examination for each course contributes 40 %.

Moderation arrangements

There will be internal and external moderation undertaken by moderators registered and accredited by BQA. All processes and procedures will be in line with NCQF requirements. This will be conducted in reference to the institution's moderation policy and procedures.

RECOGNITION OF PRIOR LEARNING (RPL) if applicable

Arrangements for awarding the qualification through RPL and CAT modes in accordance with institutional policies and guidelines are in place.

PROGRESSION PATHWAYS (LEARNING AND EMPLOYMENT)

Horizontal Articulation

- Certificate III in Animal Production
- Certificate III in Animal Husbandry
- Certificate III in Animal Health

Vertical Articulation

- Certificate IV in Livestock farming
- Certificate IV in Animal Production
- Certificate IV in Animal Husbandry
- Certificate IV in Animal Health

Employment

- Livestock Gate Picketer
- Herdsman
- Inoculator
- Shepherd

QUALIFICATION AWARD AND CERTIFICATION

Qualification Award

A candidate is required to achieve the stipulated minimum of 40 credits to be awarded Certificate III in Farming and Management qualification.

Certification

A certificate will be issued on completion of the Qualification.

REGIONAL AND INTERNATIONAL COMPARABILITY

South African Qualification Authority (SAQA), South Africa, National Certificate: Animal Production NQF Level 3, Credit 120 minimum.

This qualification is intended to develop knowledge, skills and competence in performing the agricultural processes as applicable to animal production. The specific areas covered are basic principles of agribusiness and good agricultural practices. Furthermore, the qualification targets the broader farm plan which includes the economical application of general resources, agricultural production and technical knowledge and skills. Assessment strategies employed for this qualification include integrated Assessment in line with the purpose of the qualification and associated exit outcomes and assessment criteria through both theory and practical assessment.

A broad range of task-orientated and theoretical assessment tools may be used, with the distinction between practical knowledge and disciplinary knowledge maintained so that each

takes its rightful place. The generic unit standards are contextualized within the vocational area. Candidates are required to achieve a minimum of 48 credits for fundamental units, 65 credits for core and 7 credits for elective units depending on the context of application or on the combination of the unit standards.

Holders of this qualification may pursue other qualifications in cognate areas at NQF Level 4.

Employment pathways for holders of this qualification include farming operation, managerial duties and other occupations within the agricultural pharmaceutical operations such as laboratory assistant, marketing and selling of agricultural pharmaceutical products. The qualification holders may progress to work as Farm managers and lead a working team performing the agricultural processes as applicable to animal production.

New Zealand Qualification Authority (NZQA) New Zealand, Certificate in Agriculture (Pastoral Livestock Production) at NQF Level 3, Credits 70 minimum

This qualification is intended to develop knowledge, skills and competencies to carry out core livestock husbandry tasks in pastoral farming enterprises including Beef production, dairy production, goat production, sheep production, broiler production, layer production, pig production, disease diagnosis, disease control, disease prevention.

The assessment strategies for this qualification seem not to have been indicated but the stipulated learning outcomes point to application of both practical and written assessment. Candidates are required to achieve a minimum of 70 Credits in order to be accorded a qualification. The minimum standard of achievement required for award of the qualification will be the achievement of all learning outcomes through successful completion of an NZQA approved programme.

Holders of this qualification may pursue other qualifications at NQF Level 4 in cognate areas such as Arable Farming, Dairy Farming and Livestock Farming for multi-skilling or retooling purposes. Employment pathways for the qualification holders include working within the livestock sector as farm

assistants or shepherds. They may be employed full-time in a husbandry role or perform the work as part of a wider on-farm role.

Generally, the two qualifications studied cover similar scope and emphasize development of the same competencies of animal husbandry. Both Institutions offer a Level 3 certificate award and successful candidates are eligible for employment or progression to level 4 certificate.

The proposed qualification compares well with the two qualifications studied in terms of content Scope and outcomes as well as assessment. What sets this qualification apart from the ones studied is that it provides more learning hours, hands-on training and attachment to approved Industries to enhance on job training as well as development of Life Skills. The total credits for the Botswana qualification is 40 credits while the foreign qualifications studied are weighted more than this credit value.

REVIEW PERIOD

The programme shall be reviewed every (5) years.