

BQA NCQF QUALIFICATION TEMPLATE

SECTION A: QUALIFICATION DETAILS															
QUALIFICATION DEVELOPER (S)				BOTSWANA POLICE COLLEGE											
TITLE		DIPLOMA IN FORENSIC PATHOLOGY							NCQF LEVEL			6			
STRANDS (where applicable)		1. 2. 3. 4.													
FIELD		HEALTH AND SOCIAL SERVICES							CREDIT VALUE			360			
SUB FIELD		HEALTH SCIENCE													
New Qualification		✓		Legacy Qualification					Renewal Qualification						
									Registration Code						
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: The Pathology qualification is designed to teach learners how to work with both living and deceased specimens for identification and forensic purposes. The qualification also includes instructions on how to perform certain administrative and clerical duties for forensic medical officers /pathologists. The qualification is aimed at training individuals to become allied health professionals who perform autopsy															

BQA NCQF QUALIFICATION TEMPLATE

pathology services under the direct supervision of a Botswana Health Professionals Council (BHPC) licensed forensic medical officers / pathologist.

Upon completion of this qualification, graduates will be able to assist the Pathologist/Forensic medical officers to perform post mortem examinations effectively. Through this qualification, learners are equipped with relevant attributes, skills and knowledge on various post mortem techniques, ethical conduct, handling grieving relatives, mortuary management and mass fatalities handling at the scene of incidence.

The development of Diploma in Forensic Pathology (DFP) qualification was informed by a number of documents and reports. The fourth pillar of the Botswana National Vision 2036 call for good Governance, Peace and Security. The Training Needs Assessment report (TNA) of 2017 frequently revealed the need for training in customer care, criminal investigation and prosecution. The Botswana Police Service Corporate Development Strategy 2017-2023 identified Crime Management and Quality workforce critical thematic areas to ensure improved customer satisfaction

PURPOSE: (itemise exit level outcomes)

On completion of the qualification learners will be able to:

- ✓ Observe health and safety measures in the mortuary
- ✓ Demonstrate knowledge of the laws and codes of practice relating to the mortuary
- ✓ Follow Forensic Biochemical sampling procedures
- ✓ Present pathology - related evidence in court
- ✓ Apply the control measures of physical and chemical agents that may cause occupational diseases
- ✓ Apply emergency evacuation procedures
- ✓ Apply basic first aid during pathological duties
- ✓ Apply relevant legal procedures regarding the handling of dead bodies

MINIMUM ENTRY REQUIREMENTS (including access and inclusion)

- Minimum of NCQF level IV or its equivalent
- BGCSE or COSC with a credit in English, Mathematics, Biology and chemistry
- Medically fit

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SECTION B QUALIFICATION SPECIFICATION	
GRADUATE PROFILE (LEARNING OUTCOMES)	ASSESSMENT CRITERIA
1. Implement OHS Legal Instruments	1.1 Interpret International and Regional OHS legislation
2. Apply Risk Assessment process in managing occupational hazards.	2.1 Follow evacuation procedures when responding to an emergency situation
3. Apply the waste management Principles	3.1 Categorise and dispose waste according to types. 3.2 Demonstrate knowledge of occupational diseases
4. Apply sound health and fitness principles	4.1 Follow proper health programmes and procedures Develop the various components of fitness.
5. Apply basic first aid	5.1 Apply chain of survival. 5.2 Apply appropriate techniques to relief choking 5.3 Manage wounds and Fractures. 5.4 Manage Head and Spinal Injuries 5.5 Manage heat exhaustion
6. Apply specific communication skills for Pathology Personnel	6.1 Use effective communication skills during pathological duties
7. Apply medical transcription	7.1 Apply proper skills on medical transcription
8. Interpret relevant statutes when dealing with dead bodies	8.1 Interpret Acts related to Inquest, Human Tissue, Forensic Procedures, anthropology, public health, Forensic age estimation, exhumation and Conveyance of Dead Bodies.
9. Apply knowledge of human anatomy and human Physiology in relation to pathological duties	9.1 Understand different body structures and Systems. 9.2 Apply skills on basic Post Mortem Examination 9.3 Apply analytic Methods and Sampling techniques in Forensic Toxicology. 9.4 Apply sampling techniques for Microbiology. 9.5 Apply sampling techniques for Virology.

BQA NCQF QUALIFICATION TEMPLATE

	9.6 Apply Forensic Anthropology and understanding of human bones in Forensic Investigations.
10. Apply skills and knowledge on ethical conduct	10.1 Display ethical behaviour with regard to religious beliefs on body handling.
11. Use appropriate skills of photography in crime scene investigation	11.1 Operate different makes of cameras. 11.2 Capture forensic photographs
12. Apply proper skills on the handling of mass fatality incidents	12.1 Handle mass fatality incidents scene 12.2 Perform Disaster victim identification (DVI) as per Interpol guidelines
13. Exhibit skills on Dissection	13.1 Practice special dissection techniques
14. Demonstrate knowledge on understanding of radiation	14.1 Apply Radiation Act of 2006. 14.2 Observe properties of radioactive materials including nuclear weapons.
15. Execute skills on the handling of mass fatality incidents	15.1 Handle mass fatality incidents scene
16. Perform embalming techniques	16.1 Demonstrate knowledge on embalming
17. Present a scholarly Research Project	17.1 Demonstrate knowledge on Research Project
18. Present evidence in court	18.1 Demonstrate knowledge on court procedure

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SECTION C		QUALIFICATION STRUCTURE			
COMPONENT	TITLE	Credits Per Relevant NCQF Level			Total Credits
		Level []	Level []	Level []	
FUNDAMENTAL COMPONENT Subjects/ Courses/ Modules/Units	Health and Safety in the Mortuary	5	8		
	Communication for Forensic Pathology Personnel	5	5		
	Ethical conduct	6	10		
CORE COMPONENT Subjects/Courses/ Modules/Units	Introduction to Pathology Unit	5	7		
	Introduction to medical terminology	6	14		
	Human anatomy	6	18		
	Human physiology	6	18		
	Grief Psychology	4	4		
	Post Mortem Examination 1	6	30		
	Introduction to Mortuary Practice	5	15		
	Introduction to Toxicology	6	10		
	Introduction to Microbiology	6	10		
	Introduction to Virology	6	10		

BQA NCQF QUALIFICATION TEMPLATE

	Introduction to Forensic Anthropology	6	10		
	Introduction to Forensic Radiography	6	10		
	Introduction to Forensic Photography	5	10		
	Grief Psychology	5	5		
	Post Mortem Examination 2	7	30		
	Introduction to Histopathology	7	16		
	Embalming	5	5		
	Mass Fatality Incident	6	10		
	Court Testimony and Documentation	6	5		
	Project (Mortuary Management Practice)	7	40		
	Attachment (mortuary practice)	7	60		
STRANDS/ SPECIALIZATION	Subjects/ Courses/ Modules/Units	Credits Per Relevant NCQF Level			Total Credits
		Level []	Level []	Level []	
1.					
Electives					

BQA NCQF QUALIFICATION TEMPLATE

SUMMARY OF CREDIT DISTRIBUTION FOR EACH COMPONENT PER NCQF LEVEL

TOTAL CREDITS PER NCQF LEVEL

NCQF Level	Credit Value
FUNDAMENTAL COMPONENT	23
CORE COMPONENT	337
ELECTIVE/ OPTIONAL COMPONENT	0
TOTAL CREDITS	360

Rules of Combination:

(Please Indicate combinations for the different constituent components of the qualification)

This Qualification is composed of 24 modules consisting of;

4 Fundamentals carrying 33 credits

21 Core modules carrying 251 credits.

There are no electives in this qualification. Upon completion trainees should have acquired a minimum of 360 credits. All core components are compulsory. Post Mortem Examination 1 is a prerequisite of Post Mortem Examination 2.

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ASSESSMENT ARRANGEMENTS

Formative

- Tests: Theory and practical
- Weightings = 60%

Summative

- Final Examination (theory and practical's)
- Weightings = 40%

MODERATION ARRANGEMENTS

Documentation

Internal Moderation Requirements

Internal moderation will be done by qualified moderators in accordance with principles and practices of Assessment and Moderation Policy to ascertain fairness, and consistency in the decisions made by the assessor.

External moderation requirements

- Engagement of experienced field experts from different organisations.
- 10% randomly picked samples of student work consisting of the key materials that the assessor has used to make an assessment judgment.

The qualification will be accredited by Botswana Qualifications Authority (BQA) while the ETP Quality Assurance

Unit will check if the qualification satisfies the accreditation standards after every five years

RECOGNITION OF PRIOR LEARNING

Recognition of Prior Learning (RPL) will be considered for the award in accordance with BQA's ETP and National Policy on RPL

CREDIT ACCUMULATION AND TRANSFER

Credit Accumulation and Transfer (CAT) will be considered for the award in accordance with BQA's ETP and National Policy on CAT

PROGRESSION PATHWAYS (LEARNING AND EMPLOYMENT)

Attainment of this qualification will open for officers to Degree in Forensic Pathology.

Horizontal Articulation (related qualifications of similar level that graduates may consider)

- Diploma in Anatomical Pathology Technology
- Diploma in Public Health
- Diploma in Forensic Science investigation
- Diploma in Laboratory Science

Vertical Articulation (qualifications to which the holder may progress to)

- Degree in Pathology / Pathology Physician
- Degree in Anatomy
- Degree in Forensic Anthropology
- Degree in Forensic Science Investigation
- Degree in Histopathology
- Degree in laboratory Science
- Degree in Forensic Science

EMPLOYMENT

- Pathology assistants
- Anatomists
- Forensic Science investigator
- Forensic Anthropology
- Mortuary manager
- Histopathologists
- Laboratory Scientist and toxicologist
- Forensic Scientist

QUALIFICATION AWARD AND CERTIFICATION

To qualify for the award, the candidate must meet all the learning outcomes and accrue a minimum of 360 credits.

Certification

Upon completion of the program, the candidate will be awarded a Diploma in Forensic Pathology.

SUMMARY OF REGIONAL AND INTERNATIONAL COMPARABILITY

SUMMARY OF SIMILARITIES AND DIFFERENCES OBSERVED

Both desktop local and regional benchmarking exercises were carried out to enhance the quality of the qualification. However, no Education and Training provider was found to be offering the same or any qualification bearing the same name as this very particular one proposed by Botswana Police College.

Local

There is no recognised institute offering the same or similar programme locally in the current set up.

Regional

There are two institutions regionally offering a similar programme to the proposed Diploma in Forensic Pathology. Both of these institutions are located in Kenya and are all TVET accredited. Those are Kenya Medical Training College and KTC Munene College of Health Sciences.

Kenya Medical training College

Kenya Medical Training College offers the **Diploma in Mortuary Science** Qualification which is equivalent to the proposed Diploma in Forensic Pathology offered by Botswana Police College. Main Exit Outcomes, Assessment strategies and Weightings, as well as Employment Pathways have been provided on the above table. However, there are notable similarities and differences observed. This may be due to the choice of naming

of modules or units within both programmes by those institutes. For instance, Grief Psychology module for the proposed Diploma in Forensic Pathology by Botswana Police College is called Human Psychology by the Kenya Medical Training College. The following are similarities observed in both programmes: Health and Safety in the Mortuary, Communication for Forensic Pathology Personnel, Ethical Conduct, Introduction to Pathology Unit, Human Anatomy, Human Physiology, Grief Psychology, Post Mortem Examination, Introduction to Mortuary Practice, Introduction to

Microbiology, Embalming, Mass Fatality Incidents and Project. These modules appear vividly within the Diploma in Mortuary Science from Kenya Medical training College.

The other significant similarity is the qualification level 6 which is relevant to the requirements of a qualification of this nature. The course duration is two (2) years for both institutions in comparison.

Differences

Although the Diploma in Mortuary Science offered by Kenya Medical Training College has observable similarities to the proposed Diploma in Forensic Pathology programme, there are differences however. The following are the different modules noted: Introduction to Medical Terminology Introduction to Toxicology, Introduction Virology, Funeral Service Management, Informatics, introduction to Forensic Anthropology, Introduction to Radiography, introduction to histopathology and Court Testimony and Documentation.

While the proposed Diploma in Forensic Pathology has a credit value of 360, the Diploma in Mortuary Science on the contrary does not carry any specific credit value attached.

JFC Munene College of Health Sciences

Similarities

The JFC Munene College of Health Sciences also offer the Diploma in Mortuary sciences programme with a large number of units or modules similar to those present in the programme proposed by Botswana Police College. Those modules embedded in their qualification and which also appear in the Diploma in Forensic Pathology are: English, Research Project, Mass Fatality, Disaster Management, Anatomy Practices and Regulations, Restorative Art and Cosmetics, Research Methods, Special Histology and Cytology, Stress Management, Infection, Prevention and Control, Bereaved Counselling, Mortuary Settings, Law, Ethics and Regulations, Human Anatomy and Physiology, Microbiology and Parasitology, HIV/AIDS management, Grief Counselling, Occupational Health and Safety, Digital Skills and Communication Skills.

It is worth noting though, that the proposed Diploma in Forensic Pathology has a credit value of 360, whereas the Diploma in Mortuary Science by JFC Munene College on the contrary does not carry any specific credit value attached to it.

Royal Society for Public Health

United Kingdom

Similarities

The **Royal Society of Public Health (UK)** offers a **Level 3 Diploma in Healthcare Science (Anatomical Pathology Technology)** with the following modules which are similar to the proposed Diploma in Forensic Pathology Qualification; Human Anatomy and Physiology, Microbiology, Legal requirements in relation to the dead, Post Mortem Techniques, Ethical Conduct, Medical transcription. Embalming, Grief Psychology, Restorative Art and Court Evidence and Documentation. It appears almost all the modules available in the proposed Diploma in Forensic Pathology by Botswana Police College appear as well within the Level 3 Diploma in Healthcare Science (Anatomical Pathology Technology) provided by the Royal Society for Public Health in the United Kingdom. Almost all except the ones listed in the differences below.

Differences

Although both the qualifications already mentioned possess very similar modules, there are only two (2) notable differences in the modules. Team Working appears in the Diploma in Anatomical Pathology Technology from the United Kingdom but not in the Diploma in Forensic Pathology. Project also on the contrary appears within the Diploma in Forensic Pathology whilst not in the Level 3 Diploma in Healthcare Science (Anatomical Pathology Technology).

The credit value for the Diploma in Forensic pathology is 360 credits, while the minimum standard for the award of the qualification pass mark for the Level 3 Diploma in Healthcare Science (Anatomical Pathology Technology) is 60% and above.

There is no Credit Value. Guided Learning Hours (GLH) 363 hours and Total Qualification Time (TQT) 615 hours.

5 Year period

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For Official Use Only:

CODE (ID)			
REGISTRATION STATUS	BQA DECISION NO.	REGISTRATION START DATE	REGISTRATION END DATE
LAST DATE FOR ENROLMENT		LAST DATE FOR ACHIEVEMENT	

BOTSWANA
Qualifications Authority