

CORE COMPETENCIES AND MINIMUM STANDARDS FOR OPTOMETRISTS TO PRACTISE IN ZAMBIA

CORE COMPETENCIES & MINIMUM STANDARDS

TABLE OF CONTENTS

TABLE OF CONTENTS	2
1.0 INTRODUCTION	4
2.0 EXIT EXAMINATIONS OF BSC. IN OPTOMETRY	4
3.0 LICENSURE EXAMINATIONS BY THE HEALTH PROFESSIONS COUNCIL OF ZAMBIA	4
4.0 COMPETENCE OUTCOME GUIDELINES	6
5.0 CORE COMPETENCIES: OPTOMETRIST	7
6.0 BLUEPRINT WEIGHTING	13
7.0 CORE PROCEDURES	13
8.0 REFERENCE MATERIALS	15

QUALIFICATION AND RESPONSIBILITIES

Title of the Programme: Bachelor of Science (BSc.) in Optometry

Key accountability for the job: First line contact with patient in a health facility.

Primary roles and responsibilities:

- 1. Patient care in eye health within a health facility set up
- 2. Conducting community and school outreach eye health activities
- 3. Linking up patients with other support services

INTRODUCTION

The Health Professions Council of Zambia (HPCZ) is a statutory body that was established by the Health Professions Act No. 24 of 2009. The Act renames and continues the existence of the Medical Council of Zambia established by the Medical and Allied Professions Act of 1977. The Health Professions Act No. 24 provides for the registration of health practitioners and regulation of their professional conduct; provides for the licensing of health facilities and the accreditation of health care services provided by health facilities; and provides for the recognition and approval of training programmes for health practitioners.

Following the issuance of the guidelines for introduction of licensing examinations for health professionals to be registered with the Health Professions Council of Zambia, this bulletin provides an outline of the minimum standards of the core competencies for registrants who have completed the B in Optometry course seeking registration as Optometrist in Zambia.

2.0 EXIT EXAMINATIONS OF BSc. IN OPTOMETRY

Training Institutions, private or public, based in Zambia or abroad, approved and/or recognised by the Health Professions Council of Zambia are mandated to examine and graduate their students under their own seal and authority as prescribed by the HPCZ act number 24 of 2009. The BSc. Degree in Optometry is designated as a qualification of the Optometrist, and it is a pre-requisite for eligibility for the Optometry practitioner licensure examinations. Accordingly, a holder of the BSc. Degree in Optometry will be required to take and pass the HPCZ licensure examination to qualify for registration with the Council as an Optometrist.

3.0 LICENSURE EXAMINATIONS BY THE HEALTH PROFESSIONS COUNCIL OF ZAMBIA

A person shall not practice as a health practitioner, unless that person is registered as a health practitioner in accordance with the Health Professions Act No. 24 of 2009. In the exercise of its functions under this Act, the 2nd Council and the 3rd Council of the Health Professions Council of Zambia instituted Licensure Examinations to help maintain standards, given the emergence of multiple private and public training institutions, besides the influx of foreign train trained Optometry professionals. This "Bulletin provides information on the Core Competencies and Minimum Standards for the Licensure Examinations for Optometrists to Work in Zambia" binds all parties regulated under this Act. Examination fees for licensure examinations, as prescribed by the Council, are payable to the Health Professions Council of Zambia as part of the eligibility to sit for the licensure examinations.

The HPCZ Licensure Examination assesses an Optometrist's ability to apply knowledge, concepts, and principles, and to demonstrate fundamental professionalism, patient-centered as well as community skills, that are important in eye health, that constitute the basis of safe and effective patient care. The HPCZ Licensure Examination includes, but is not limited to theoretical and

clinical skills practical examinations which complement each other's components. No component is a stand-alone in the assessment of readiness for Optometry practice in Zambia.

The candidate will be assessed under the following three domains, namely: -

- 1. Knowledge
- 2. Skills
- 3. Attitude

The above domains will be assessed by means of a theory examination comprising of multiple choice questions followed by clinical skills practical conducted in the eye clinic on walk-in patients. The candidate would then make a clinical presentation of the clinical case before a panel of examiners.

The four main subject areas (assessed under all three learning domains) for Optometrists in Zambia are:

- 1. Ocular and Systemic Diseases
- 2. Optics and Refraction, and Contact Lens
- 3. Low Vision
- 4. Dispensing Optics

Other subject areas prescribed by the curriculum such as Paediatric Optometry, Binocular Vision, Contact Lens, to name but a few; will only be assessed as cognitive domain in the theory paper. The overall expected outcomes of the licensure examination are to ensure that the Optometrist will meet the minimum standards for the role as a mid-level eye health worker.

4.0 COMPETENCE OUTCOME GUIDELINES

The curriculum must have identified attributes in each educational domain (knowledge, skills and attitude) and presented them to guide student learning and assessment by examiners. HPCZ directs medical practitioners to be compassionate and empathetic in caring for patients and to be trustworthy and truthful in all their professional dealings. Optometry practitioners have a responsibility to respect and provide eye health care that is up to standard for the lives and health that are entrusted by patients. The expectations are largely in six core competences, namely: -

- 1. Patient Care
- 2. Medical Knowledge
- 3. Practice-based Learning and Improvement
- 4. Communication Skills
- 5. Professionalism
- 6. Systems-based Practice

Overall Outcomes

Knowledge, Skills and Performance

- Care of the patient is the first concern.
- Provision of a good standard of practice and care by keeping professional knowledge and skills up to date while recognizing the limits of one's competence.

Safety and Quality

- Prompt action if patient safety, dignity or comfort is compromised.
- Protect and promote the health of patients and the public.

Communication, Partnership, and Teamwork

- Uphold the respect of patient's autonomy and dignity.
- Uphold informed consent and confidentiality.
- Work with colleagues in ways that best serve the patient's interests.
- Work with honesty, integrity and fairness.

Maintaining Trust

- Work with honesty, openness and integrity.
- Uphold fairness with patients or colleagues.
- Safeguard the patient's and public's trust in the practitioner and the profession never abuse the trust.

Management

- Demonstrate awareness and apply administrative, management and finance principles.
- Take up entrepreneurship challenges to complement public health services in the country

DOMAIN 1: KNOWLEDGE				
COMPETENCY	COMPETENCY STATEMENT	SUBCOMPETENCIES IN OPTOMETRY		
Patient Care	Graduates must be able to provide patient care that is compassionate, appropriate and effective for the treatment of eye and systemic health problems & the promotion of eye health	 Conduct a clinical consultation and take relevant and detailed medical history, gathering essential and accurate information about patient's illness, in all specific subject areas, including systems review, while ensuring patient's privacy. Interpret findings from the history, physical signs and slit lamp examination Make informed decisions about diagnostic and therapeutic interventions, based on patient information and preferences, up-to-date scientific evidence, and clinical judgment; Conduct refractions and prescribe spectacles Conduct clinical assessment for contact lens prescription Assess for binocular vision anomalies, and strabismus. Formulate a plan of investigation and demonstrate understanding of the processes involved in making a differential diagnosis Place patient's needs and safety at the centre of the eye care process. Provide patient care that is compassionate, appropriate, and effective for the treatment of eye and related systemic health problems and the promotion of eye health; Communicate effectively and demonstrate caring and respectful behaviors when interacting with patients 		

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		and their families, taking into
		consideration patient age, gender
		identification, impairments, ethnic
		group, and faith community;
		11. Counsel and educate patients and their
		families;
		12. Use information technology to support
		patient-care decisions and patient
		education;
		13. Provide health care services aimed at
		preventing eye health problems or
		maintaining eye health; and
		14. Work with all healthcare professionals,
		including those from other disciplines,
		to provide patient-focused care.
		1
		Demonstrate awareness of the clinical responsibilities and role of the
		Optometrist, taking the care of the
		patient the first concern
		2. Demonstrate knowledge about the
		correlation between the patient's ocular
		history, interpret findings from the
		history and physical signs to formulate a
		provisional diagnosis and differential
	Graduates should	diagnosis.
	demonstrate knowledge	3. Differentiates the common refractive
Medical –	about established and	errors, ocular and systemic related
Optometry	evolving biomedical, clinical sciences and	ocular disease presentations
knowledge	application of this	4. Demoonstrate knowledge and understanding of practise contact lens
	knowledge to patient care in	dispensing
	Ophthalmology	5. Demonstrate knowledge and
	- r	understanding of binocular vision
		anomalies, and assessment and
		management of strabismus
		6. Demonstrate knowledge and
		understanding of Low Vision
		assessment and management, and vision
		rehabilitaion
		7. Demonstrate knowledge of the
		management of refractive errors, low
		vision assessment and optical dispensing

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8. Demonstrate knowledge of the
relationship between ocular disease,
systemic diseases and refractive errors
9. Demonstrate knowledge of the common
ocular diseases, and identifies those that
need referral, and refers as soon as
possible
10. Demonstrate knowledge about
established and evolving biomedical,
clinical, and cognate (e.g.,
epidemiological and social-behavioural)
sciences and apply this knowledge to
patient care;
11. Demonstrate knowledge about the
biomedical basis of eye diseases, and its
application in ophthalmic practice
12. principles and best clinical evidence.;
13. Know and apply the basic and clinically
supportive sciences, which are
appropriate to Optometry practice

	DOMAIN 2: S	SKILLS
Clinical Practice- Based Learning & Improvement	Graduates should be able to investigate and evaluate their patient care practices, appraise and assimilate scientific evidences & improve their Optometry patient care practice	 Conduct refractive error related community and school eye health activities Provide Refractive Eye health promotions to communities and schools Investigate and evaluate patient care practices; appraise and assimilate scientific evidence; and improve patient care practices; Apply knowledge of study designs and statistical methods to the appraisal of clinical studies and other information on diagnostic and therapeutic effectiveness

 ,
professional development; and facilitate
the learning of students and other
healthcare professionals.
8. Refer eye conditions which require the
attention of the next level of competence
9. Be aware of own personal and
professional limitations and enlist the
help of colleagues and supervisors when
necessary.
10. Pass on the art and practise of Optometry,
by being an effective mentor and teacher
to colleagues and others.
11. Function within a Multi-disciplinary and
Professional team
12. Administration, Management
Entrepreneurship
13. The graduate should be able to
effectively take up administrative and
management responsibility in the health
sector. The graduate should be able to:
14. Take up entrepreneurship challenges to
complement public health services in the
country.
15. Utilize best practices from routine
patient care audits
16. Apply recommendations of routine
updates on patient care
17. Utilize information technology
18. Demonstrate knowledge of the research
10. Demonstrate knowledge of the research

	DOMAIN 3: AT	TITUDE
Communication Skills	Graduates must demonstrate interpersonal and communication skills that result in effective information exchange & teaming with patients, families & professional associates	 2. Create and sustain a therapeutic and ethically sound relationship with patients; 3. Use effective listening skills and elicit and provide information using effective

process to other professionals.

	4. Work effectively with others as a member or a leader of a health care team or other professional group.5. Mentor Optometery students and other health care providers
	 Demonstrate a commitment to carrying out professional clinical responsibilities and roles of the Optometrist, adherence to ethical principles, and sensitivity to a diverse patient population. Be polite, considerate, trustworthy and
Attitude and Ethical a commitment to carrying out professional responsibilities, adherence to ethical principles, &	honest, and act with integrity, maintain confidentiality, respect patients' dignity and privacy and understand the role of informed consent.
	3. Respect all patients, colleagues and others irrespective of age, socio-economic status, political affiliation, race, religion or creed.
	4. Demonstrate respect, compassion, and
	integrity; 5. Demonstrate a responsiveness to the
	5. Demonstrate a responsiveness to the needs of patients and society that supersedes self-interest; accountability to patients, society, and the profession; and a commitment to excellence and ongoing professional development;
	6. Demonstrate a commitment to ethical principles pertaining to provision or withholding of clinical care, confidentiality of patient information,
	informed consent, and business practice; 7. Demonstrate sensitivity and responsiveness to patient culture, age, gender identification, and disabilities.
	1. Understand the framework in which
	Optometry is practiced in Zambia.
	2. Understand and respect the roles and
Graduates must demonstrate an awareness of and responsiveness to the larger	expertise of other health and social professionals in the care of patients as a multi-professional team. 3. Work with colleagues in ways that best
Systems-based context & systems of health care & the ability to	serve the interests of the patient.

resources to provide care that is of optimal value to Optometry patients

- effectively call on system 4. Demonstrate ability to build team capacity and function at various levels within the team.
 - 5. Participate and respond to outcomes of appraisals, performance reviews, and assessments.
 - 6. Demonstrate an awareness of and responsiveness to the larger context and system of health care and effectively call on system resources to provide care that is of optimal value;
 - 7. Understand how patient care and other professional practices affect other health care professionals, the health care organization, and the larger society, and how these system elements affect their personal ophthalmic practice;
 - 8. Know how types of medical practice and delivery systems differ from one another, including methods of controlling health care costs and allocating resources; and practice cost-effective eye health care and resource allocation that do not compromise quality of care;
 - 9. Advocate for high quality eye patient care and assist patients in dealing with system complexities;
 - 10. Know how to partner with health care managers and health care providers to assess, coordinate, and improve health care, and know how these activities can affect system performance.
 - 11. Know how to partner with services that can improve quality of life (e.g., health, education, livelihoods, social inclusion) of people with long term visual impairment.

6.0 BLUEPRINT WEIGHTING

COMPETENCY	WEIGHTS
Patient Care	60%
2. Ophthalmic Knowledge	20%
3. Practice-based Learning and Improvement	5%
4. Communication Skills	5%
5. Professionalism	5%
6. Systems-based Practice	5%
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7.0 CORE PROCEDURES

The following procedures are the minimum standards, and a full list could be found in the curriculum:

	Conduct a relevant history taking in all specific subject areas,
	including systems review.
	Conduct and interpret the following preliminary examinations
	1. Visual acuity
	2. Contrast Sensitivity
Common	3. Pupillary reactions
Procedures (these	4. Extra-ocular motility
procedure cut	5. Colour vision tests
across all the four	6. Intra-ocular pressure
subject areas	Conduct an examination of the ocular adnexa and the anterior
mentioned in 4.0)	segment, and interpret the findings thereof using any of the following
	instruments: -
	1. An examination pen torch
	2. A loop magnifier
	3. Slit lamp biomicroscope
	4. Able to collect eye swabs and other specimen for laboratory
	investigations
	Conduct an examination of the ocular posterior segment and interpret
	the findings thereof using any of the following ophthalmic
	instruments: -
	1. Direct ophthalmoscope
	2. Slit lamp biomicroscpy using a condensing lens such as a
	90D lens
	Being able to perform and interpret some of the specialised
	ophthalmic investigations such as: -
	1. Visual field tests
	2. Fundus photography
	3. Optical coherence test
	4. Biometry - A and B scans

	5. Keratometry
	6. Pachymetry
	7. Corneal topography
	Ability to use diagnostic therapeutics in clinical practices, such as: - 1. Using dilating drops for fundoscopic examination
	2. Use of topical anaesthetic drugs for examination
1.	Identifies patients with different types of ocular conditions that need first aid and emergency interventions
2.	Differentiates the common ocular and systemic related ocular diseases' presentation
3.	Differentiates the common types of ocular neoplasms.
4.	Manages common ocular diseases, and identifies those that need referral, and refers as soon as possible
5.	Describes Optometric management modalities for certain ocular diseases
6.	Applies scientific principles, theories and concepts, including counseling, that are fundamental to the care of patients with Ophthalmic conditions
1.	Diagnose refractive errors and binocular vision anomalies, and performs retinosopy for the diagnosis of refractive error
2	Appies the principles and practise of Contact Lenses
3.	Describe principles of accommodation, and contorl accommodation during refraction in both adults and children
4.	Prescribe spectacles and other vision assistive devices
5.	Measure interpupillary distance
6.	Assess, verify and dispenses optical and/spectacle devices
7.	Fits spectacle lenses
8.	Identification of other visual impairment that need either referral and/or visual rehabilitation
1.	Addresses the psychosocial effects of low vision at developmental stages
2.	Assess the residual visual function, and performs low vision evaluation
3.	Provide the prevention and basic interventions for common causes of visual impairment, low vision and blindness
4.	Prescribes and dispenses low vision aids, as well as offers limited visual rehabilitation services
5.	Provides linkages for low vision patients to support services
	2. 3. 4. 5. 6. 1. 2. 3. 4. 5. 6. 7. 8. 1. 2. 3. 4.

		Select the most appropriate ophthalmic lens for different patient's
	1.	needs
		Advise on the appropriate frame for different refractive error needs
	2.	
Dispensing Optics		Edge and fit the lens into a frame
	3.	
		Assesses and dispenses contact Lenses
	4.	
		Adjust and deliver the spectacles
	5.	
		Attend to clients' problems arising during dispensing
	5.	

8.0 REFERENCE MATERIALS

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Ocular and	Systemic Approach, 7th Edition, Elsevier
Systemic Diseases	
	Riordan-Eva P., Whitcher J. P., (2007) Vaughan & Asbury's
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Low Vision	Vision, 2nd edition, Butterworth–Heinemann.
	Chaudry M., (2006). Low Vision Aids, 1st Edition, Jaypee Brothers
	Medical Publishers (P) Ltd, New Dehli, India
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Dispensing Optics	3 rd Editon, Butterworth Heinemann.
	Wilson D. (2006), Practical Optical Dispensing 2 nd Edition; OTEN
	Sydney
Interpersonal &	Guffey ME (2007) <i>Essentials of Business Communication</i> 7th ed.
Communication	Australia: South-Western College Publishing.
Skills	Hybels S, Weaver R (2004) <i>Communicating Effectively</i> . 7th ed.
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	Banda SS (1999) <i>Medical Ethics for Medical and Health Professions</i> . London: Oxford Press.
System-Based Practice	Cole A (2002) <i>Personnel and Human Resource Management</i> . London: Book Power.
	Handy CB (2000) <i>Understanding Organizations</i> . Oxford: Oxford University Press.