

CORE COMPETENCIES AND MINIMUM STANDARDS FOR ADVANCED PARAMEDICAL OPHTHALMOLOGISTS TO PRACTISE IN ZAMBIA

CORE COMPETENCIES & MINIMUM STANDARDS

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QUALIFICATION AND RESPONSIBILITIES

Title of the Programme: Advanced Diploma in Clinical Ophthalmology

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

1.0 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 Advanced Paramedical Ophthalmologist course seeking registration as Ophthalmic practitioners in Zambia.

2.0 EXIT EXAMINATIONS AND AWARD OF ADVANCED DIPLOMA IN CLINICAL OPHTHALMOLOGY

Training Institutions, private or public, approved 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 Advanced Diploma in Clinical Ophthalmology Award is designated as a post-basic qualification of the Advanced Paramedical Ophthalmologist, and it is a pre-requisite for eligibility for the Ophthalmic practitioner licensure examinations. Accordingly, a holder of the Advanced Diploma in Clinical Ophthalmology will be required to take and pass the HPCZ licensure examination to qualify for registration with the Council as an Advanced Paramedical Ophthalmologist.

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. This "Bulletin provides information on the Core Competencies and Minimum Standards for the Licensure Examinations for Advanced Paramedical Ophthalmologist 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 Advanced Paramedical Ophthalmologist'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 ophthalmic 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 Advanced Paramedical Ophthalmologist in Zambia are:

- 1. Clinical Ophthalmology
- 2. Optics and Refraction
- 3. Ophthalmic Surgery
- 4. Ophthalmic Nursing Care

Other subject areas prescribed by the curriculum such as Primary Eye Care, Epidemiology in Eye Health, Health Systems Research, 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 Advanced Paramedical Ophthalmologist 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. Ophthalmic 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

5.0 CORE COMPETENCIES: ADVANCED PARAMEDICAL OPHTHALMOLOGIST

DOMAIN 1: KNOWLEDGE			
COMPETENCY	COMPETENCY STATEMENT	SUBCOMPETENCIES IN OPHTHALMOLOGY	
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 relevant history taking, gathering essential and accurate information about patient's illness, in all specific subject areas, including systems review, while ensuring patient's privacy. Conduct and interpret preliminary examinations on the eye patient Make informed decisions about diagnostic and therapeutic interventions, based on patient information and preferences, up-to-date scientific evidence, and clinical judgment; 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 and their families, taking into consideration patient age, gender identification, impairments, ethnic group, and faith community; Develop and carry out and in patient management plans; Counsel and educate patients and their families; Use information technology to support patient-care decisions and patient education; 	

		10. Provide health care services aimed at
		preventing eye health problems or
		maintaining eye health; and
		11. Work with all healthcare professionals,
		including those from other disciplines,
		to provide patient-focused care.
Medical - Ophthalmic knowledge	Graduates should demonstrate knowledge about established and evolving biomedical, clinical sciences and application of this knowledge to patient care in Ophthalmology	 Provides first aid and emergency interventions to patients with different types of ocular conditions 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 diagnosis. Differentiates the common ocular and systemic related ocular diseases' presentations Differentiates the common types of ocular neoplasms Manages common ocular diseases, and identifies those that need referral, and refers as soon as possible Describes different cancer treatment modalities Demonstrate knowledge about established and evolving biomedical, clinical, and cognate (e.g., epidemiological and social-behavioural) sciences and apply this knowledge to patient care; Demonstrate knowledge about the biomedical basis of eye diseases, and its application in ophthalmic practice Demonstrate an investigatory and analytic thinking approach to clinical situations through appropriate laboratory investigations and interpretation of the results thereof, and formulate a plan of treatment, management and discharge, according to established ophthalmic principles and best clinical evidence.;

10. Know and apply the basic and clinically
supportive sciences, which are
appropriate to ophthalmic practice

	DOMAIN 2:	SKILLS
Clinical Practice- Based Learning & a Improvement	Graduates should be able to nvestigate and evaluate their patient care practices, appraise and assimilate cientific evidences & amprove their Ophthalmic patient care practice	 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 Competently perform the ophthalmic and invasive procedures considered essential for the area of practice; Use information technology to manage information, access online medical information, support ongoing personal professional development; and facilitate the learning of students and other healthcare professionals. Refer eye conditions which require the attention of the next level of competence Be aware of own personal and professional limitations and enlist the help of colleagues and supervisors when necessary. Pass on the art and practice of Ophthalmology, by being an effective mentor and teacher to colleagues and others. Function within a Multi-disciplinary and Professional team Administration, Management Entrepreneurship The graduate should be able to effectively take up administrative and management responsibility in the health sector. The graduate should be able to: Demonstrate awareness and apply administrative, management and finance principles.

12. Take up entrepreneurship challenges to
complement public health services in the
country.
13. Utilize best practices from routine
patient care audits
14. Apply recommendations of routine
updates on patient care
15. Utilize information technology
16. Demonstrate knowledge of the research
process to other professionals.

DOMAIN 3: ATTITUDE			
Communication Skills	Graduates must demonstrate interpersonal and communication skills that result in effective information exchange & teaming with patients, families & professional associates	 3. 4. 	Demonstrate communication skills that result in effective information exchange and teaming with patients, patient families, and professional associates; Create and sustain a therapeutic and ethically sound relationship with patients; Use effective listening skills and elicit and provide information using effective nonverbal, explanatory, questioning, and writing skills; Work effectively with others as a member or a leader of a health care team or other professional group. Mentor Clinical Ophthalmology students and other health care providers
Professionalism – Attitude and Ethical Practice	Graduates must demonstrate a commitment to carrying out professional responsibilities, adherence to ethical principles, & sensitivity to a diverse patient population	2.	Demonstrate a commitment to carrying out professional clinical responsibilities and roles of the Advanced Paramedical Ophthalmologist, adherence to ethical principles, and sensitivity to a diverse patient population. Be polite, considerate, trustworthy and honest, and act with integrity, maintain confidentiality, respect patients' dignity and privacy and understand the role of informed consent. Respect all patients, colleagues and others irrespective of age, socioeconomic status, political affiliation, race, religion or creed.

	T	4	D
		4.	Demonstrate respect, compassion, and integrity;
		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 on-
			going 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
			Ophthalmology is practiced in Zambia.
		2.	Understand and respect the roles and
			expertise of other health and social
	Graduates must demonstrate		professionals in the care of patients as a
	an awareness of and		multi-professional team.
	responsiveness to the larger	3.	Work with colleagues in ways that best
Systems-based	context & systems of health		serve the interests of the patient.
Practice	care & the ability to	1	Demonstrate ability to build team
	effectively call on system resources to provide care	٦.	capacity and function at various levels
			within the team.
	that is of optimal value to	_	
	Ophthalmic patients	5.	1
			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
1. 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%
6. Systems-based Practice	5%

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. Pupillary reactions			
Common		3. Extra-ocular motility			
Procedures (these		4. Colour vision tests			
procedure cut		5. Intra-ocular pressure			
across all the four		Conduct an examination of the ocular adnexa and the anterior			
subject areas		segment, and interpret the findings thereof using any of the following			
mentioned in 4.0)		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			
		2. Cod of toprout university of age for thumbhander			
	1.	Provides first aid and emergency interventions to patients with			
		different types of ocular conditions			
Clinical	2.	Differentiates the common ocular and systemic related ocular			
Ophthalmology		diseases' presentation			
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2	•			
	3.	Differentiates the common types of ocular neoplasms			
		Manages common ocular diseases, and identifies those that need			
	4.	referral, and refers as soon as possible			
	5.	Describes different cancer treatment modalities			
		Applies scientific principles, theories and concepts, including			
	6	counseling, that are fundamental to the care of patients with			
		Ophthalmic conditions			
	7				
	7.	Provides appropriate palliative care to patients with life-limiting			
		illnesses			

	1.	Diagnose refractive errors and binocular vision anomalies
	2.	Describe principles of accommodation, and contorl accommodation
Optics and		during refraction in both adults and children
Refraction	3.	Prescribe spectacles and other vision assistive devices
	4.	Measure interpupillary distance
	5.	Assess and verify optical and/spectacle devices
		Identification of other visual impairment that need either referral
	6.	and/or visual rehabilitation
Ophthalmic Surgery	1.	Describe the common surgical conditions affecting the eye
		Outline scientific principles, theories and concepts that are
	2.	fundamental to the care of patients with surgical conditions
		Provide adequate information to clients to enable them make
	3.	informed consent prior to any surgical interventions
		Provide pre-operative and post-operative interventions to patients
	4.	with surgical condittions
		Demonstrate competence in eye surgical procedures with regards to
	5.	the level of training
		Support patients and families experiencing life-limiting and terminal
	6.	surgical illness
Ophthalmic Nursing Care		Apply ophthalmic nursing principles in assessing, planning,
	1.	implementing and evaluating needs of the client.
		Explain the developmental and social problems, and attends to the
	2.	needs of a visually handicapped person.
		Apply appropriate ophthalmic nursing care model in the management
	3.	of a client with ophthalmic conditions, e.g. administration of topical
		ocular drugs
		Describes and applies the principles of emergency and non-
	4.	emergency ophthalmic care in the health care facility and the
		community.
		Describe the role of the social worker and the ophthalmic practitioner
	5.	both in the health care facility and the community.

8.0 REFERENCE MATERIALS

Clinical Ophthalmology	Kanski J. J., Bowling B., (2011). Clinical Ophthalmology – A Systemic Approach, 7 th Edition, Elsevier
	Riordan-Eva P., Whitcher J. P., (2007) Vaughan & Asbury's General Ophthalmology 17 th Edition, McGraw Hill
Optics and Refraction	American Academy of Ophthalmology, (2015), Clinical Optics Basic and Clinical Science Course, Section 3, American Academy of Ophthalmology Elkington A. R., Frank H. J., and Greaney M. J, (1999). Clinical Optics, Blackwell Science Ltd
Ophthalmic Surgery	Smith, S. J. (2004), <i>Eye Surgery in Hot Climate 3rd Edition</i> , Thorpe: London Kanski J. J., Bowling B., (2011). Clinical Ophthalmology – A Systemic Approach, 7 th Edition, Elsevier
Ophthalmic Nursing Care	Marsden J., (2006), Ophthalmic Care, Wiley, Chichester Kanski J. J., Bowling B., (2011). Clinical Ophthalmology – A Systemic Approach, 7th Edition, Elsevier
Interpersonal & Communication Skills	Guffey ME (2007) <i>Essentials of Business Communication</i> 7th ed. Australia: South-Western College Publishing. Hybels S, Weaver R (2004) <i>Communicating Effectively</i> . 7th ed. New York: McGraw-Hill.
Professionalism	Health Professions Council of Zambia, <i>Act of 2009 No. 24 of the Laws of Zambia</i> Banda S. S. (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.