



Council of Ministers
National Examination Committee
for Health Education

National Exit Examination Blueprint for Bachelor of Science in Nursing

October 2012

Preface

Sub Decree No.21 ANKr, dated on 13 March 2007, on Health Education was enforced to require national exit exam for students from health educational institutions in both private and public sector in order to ensure quality and capacity of students for better service delivery with quality and safety to citizens. To form appraisal basis on student capacity, one coordination committee was established with composition of Secretary of State for Health as Chairperson, Under Secretary of State of MoEYS as Vice Chairperson, representatives from ACC, public & private institutions, professional councils, and secretariat of national exam to offer technical advice on development of national exam blueprint in compliant with core competency framework of health professionals.

Referring to above objective, National Examination Committee decides to endorse implementation of National Exam Blueprint for graduates of Bachelor of Science in Nursing at concerned educational institutions to prepare and supervise students in national exit exam with high efficiency.

National Exam Blueprint for graduates of Bachelor of Science in Nursing was developed to respond to core competency framework of health professionals based on knowledge, skill and attitude in fundamental of nursing science, nursing care, professional and personal attitude. This national exam blueprint consists of written exam with 2000 MCQ questions as a question reference bank and clinical exam questions for 07 stations to evaluate core clinical skills of students.

National Examination Committee for Health Education would like to thank all partners concerned for their involvement in development of National Exam Blueprint for graduates of Bachelor of Science in Nursing.

This blueprint was regularly modified following advancement in health science.

Phnom Penh, 22th October, 2012
National Examination Committee for Health Education
Chairperson

[Signature & Seal]

Seng Lomnov

**Guideline
on
National Exam Blueprint for Graduates of Bachelor of Science in Nursing**

A. Aim:

National Exam Blueprint for Graduates of Bachelor of Science in Nursing was established as a basis for appraisal of competency, skill, knowledge and attitude for nursing service provision with high quality and effectiveness.

B. Exam Management:

National Examination Committee for Health Education is responsible for preparation, management, and assessment of national exit exam for graduates of Bachelor of Science in Nursing. The committee has one secretariat as an assistant with composition of Human Resource Development Department of Ministry of Health, and Department of Higher Education of Ministry of Education, Youth and Sports.

C. Exam Subject:

C.1. Written Exam

C1.1. National Exit Exam Application Procedure

To be eligible to sit for written exam, applicants must be graduates from nursing educational institutions endorsed by MoH and MoEYS.

C.1.2. Content of Written Exam

Written exam is designed in MCQ format (Multiple Choice Questions) with **200 questions**. Out of four or five answer choices, only one answer is correct in each MCQ question. The 200 questions are selected from **question bank** with 2000 questions compiled by one technical working group designated by National Examination Committee for Health Education based on core competency framework of professional nurse and lessons at educational institutions following national curriculum of MoH and MoEYS.

Topics of lesson and their priority in written exam design are illustrated in following examination plan:

No.	Lesson	% question	# question	Subject
1	Biomedical Science	20%	40	Fundamental of Nursing Science (45%)
2	Behavioural Science	5%	10	
3	Nursing Science	20%	40	
4	Nursing Process	10%	20	Nursing Care (55%)
5	Nursing: - Mother & Child - Adult & Elderly	35%	70	
6	Nursing Procedures	10%	20	
	Total	100%	200	

Note:

- Detail content of core competency framework of professional nurse, which is stipulated in Prakas No. 640 ABS.ATM, dated on 20th August, 2012 of Minister of Health serves as reference basis for MCQ questionnaire preparation.

- MCQ question bank with 2000 questions is developed for relevant educational institutions to implement in preparation of national exit exam.

C1.3. Preparation of Written Exam

The 200 MCQ questions are randomly selected on the exam date from MCQ question bank by computer program based on the percentage of topics of lesson shown in the above plan. Candidates are not allowed to peep books or related documents. Exam duration is defined by National Examination Committee.

C1.4. MCQ Scoring

Each MCQ question contains four or five answer choices and **only one** answer is correct and scored. In case that more than one answer are chosen, though the answer is correct, candidates will not receive mark for the chosen answers.

Candidates must get at least 70% of total mark to pass written exam.

C1.5. Supplementary Written Exam

Failed candidates are allowed to retake next exam set by National Examination Committee for Health Education.

C.2. Objective Structured Clinical Exam (OSCE)

C.2.1. Eligibility of OSCE

To be eligible for OSCE, candidates must pass written exam.

C.2.2. Aim

OSCE aims to evaluate specialized skills of candidates in patient counselling, communication, nursing care and clinical nursing skill.

C.2.3. Exam Format

There are **07 stations** with 15 minutes for each station in OSCE.

At each station, candidates must choose one procedure randomly. The station can use standardized patient or assistant, manikins, or other related equipment.

At least two examiners are randomly selected from different educational institutions for each station. The examiners work under supervision of vigilance committee to ensure transparency in evaluation.

C.2.4. Scoring

Scoring in OSCE is as follow:

- Pass: perform at least 75% of all essential points for the station.
- Fail: perform less than 75% or make remarkable mistakes that can cause danger/death threatening (as mentioned in checklist)

C.2.5. Result

Candidates will receive grade as "Pass" in OSCE in following cases:

- get passing scores in all 07 stations or
- get passing scores in 06 stations and with scores of at least 60% in the other station.

C.2.6. Supplementary OSCE

Candidates who **"fail"** in any station can retake OSCE at that station in next exam set by National Examination Committee.

Note:

- Stations for OSCE are organized by a group designated by National Examination Committee for Health Education depending on core competency framework for professional nurse.

- There is one or multiple nursing procedure or scenario for candidates to randomly choose at each station.

C.2.7. Exam subject for OSCE

07 stations are as follow:

❖ Station 1: Hand washing for applying sterilized procedures

1. Washing hands, donning and taking off gloves

❖ Station 2: Surgical care

1. Applying an elastic bandage
2. Performing suture removal
3. Applying a wound dressing
4. Performing small wound suture
5. Performing abscess incision
6. Caring for clients with closed chest drainage system

❖ Station 3: Medical care

1. Intubating the clients with a nasogastric tube
2. Performing nasal pharyngeal suctioning
3. Applying an oxygen mask
4. Insert a straight or indwelling catheter for female
5. Administering an enema

❖ Station 4: Fluid perfusion/ Catheterization

1. Administering intradermal injections
2. Administering subcutaneous injections
3. Administering intramuscular injections
4. Initiating intravenous therapy
5. Initiating blood therapy

❖ Station 5: Infection Control

1. Decontamination and cleaning of small surgery materials

❖ Station 6: Cardio Pulmonary Resuscitation-CPR

1. Performing cardiopulmonary resuscitation

❖ Station 7: Patient health education

1. Tuberculosis
2. Malaria
3. Dengue Fever
4. Malnutrition
5. Hypertension
6. Diabetes

Note:

- Detail content of core competency framework of professional nurse for development OSCE is stipulated in Prakas No. 640 ABS.ATM, dated on 20th August, 2012 of Minister of Health.
- Clinical checklist and guideline on nursing procedure assessment are used as evaluation tools in OSCE that educational institutions can utilize for preparation of national exit exam.