January 2023

Qualification Exam Blueprint for Bachelor of Science in Anesthesia

Aligned with the National Qualification Standard (NQS)

National Alliance for Quality of Anesthesia Education (NAFQAE)

Addis Ababa, Ethiopia

Page 1 of 23

Acknowledgment

This Qualification Exam Blueprint for Bachelor's Degree in Anesthesia Program is developed by the National Alliance for Quality of Anesthesia Education (NAFQAE) in collaboration with 5 Ethiopian Higher Education Institutions (HEIs) providing Anesthesia Bachelor level training and the Ethiopian Association of Anesthetists (EAA), and the Health Workforce Improvement Program (HWIP).

This document is made possible by the generous support of the American people through the United States Agency for International Development (USAID) under the Cooperative Agreement 72066320CA00008. The contents are the responsibility of teaching institutions and do not necessarily reflect the views of USAID or the United States Government.

The Higher Education institutions involved in the development and review of this qualification exam blueprint were:

- Addis Ababa University (AAU)
- Dilla University (DU)
- Dire Dawa University (DDU)
- Menelik II Health Science College (MIIHSC)
- University of Gondar (UOG)
- Debre Tabor University

The members of the task force who developed this qualification exam blueprint were the following: Leulayehu Akalu (EAA/ AAU), Yohannes Molla (Technical Lead, Jhpiego), Abinet Besufkad (MIIHSC), Amare Hailekiros (UOG and EAA), Amelmazin Faril (DDU), Anteneh Atle (DDU), Bayisa Garbessa (DDU), Basazinew Chekol (DTU), Eyayalem Melese (AAU), Ezra Ejegu (DDU), Hailemariam Getachew (DU), Lidya Haddis (AAU), Rahel Ayalew (DU), and Tewodros Shitemawu (MIIHSC), Asselef Tasew (Jhpiego), Bekalu Assamnew (Amref health Africa) and Mintwab Gelagay (Jhpiego).

Introduction

xam blueprinting is a critical step in the exam development process. It helps sample
essential content areas and competencies with appropriate emphasis to ensure the validity of exams.

A test blueprint also known as test specification is a grid, which allows examiners to generate content-valid exams by linking the required subject content and competencies to the items appearing on the test. It is highly recommended for high-stakes exams like qualifying and licensure exams. It enables proper sampling of content and competencies as well as the selection of appropriate assessment methods and tools.

Besides, it makes assessment 'fair' to the students as they can have a clear idea of what is being examined and can direct their learning efforts in that direction. Blueprinting helps teachers in designing instructional strategies as per the guidelines expected in the curriculum, providing appropriate emphasis on content, competencies, and tools.

Purpose and Goals

The main purpose of the qualifying exam is to verify the competence and attest readiness of final-year anesthesia students for a minimally supervised practice (during their internship) ensuring patient safety and contributing to quality healthcare provision.

The goal of this blueprint is to improve quality and standardize assessment practices thereby improving students' competence and their performances on licensure examinations.

Content development and organization

The blueprint is broadly organized employing practice-related frameworks such as the CanMeds framework emphasizing anesthetists' broader roles (also now as domains) in their routine health care practice. In accordance with the national qualification standard and licensing exam blueprint frameworks, we used the following *five domains* as an overarching organization framework for the blueprint: Patient care, Professionalism, Education, research and evidence-based practice, Leadership and management, and Health promotion and disease prevention.

After a critical review of the existing local and international evidence on qualification standards, the competencies expected of the baccalaureate degree qualifiers were defined under the five broader roles. Accordingly, the expected exit level **13 competencies** were identified, and their interaction is depicted in the competency network diagram below (Fig 1).



Figure 1: Competency framework

As illustrated in Figure 1 above, the patient care domain is broken down into eight core competencies that are identified following the main patient care process in which anesthetists are involved: Pre-operative, intraoperative, postoperative and out-of-operating room care. The intraoperative anesthesia management competency (C4) further broken down in to twelve content categories using anesthesia sub-specialty areas. Efforts have been made to use frameworks most faculty are accustomed to so as to enhance common understanding.

Competencies and content categories were then broken down into tasks that corresponded to the job assignments and respective scope of practice for baccalaureate anesthetists. We began with a list of 75 tasks, which was letter condensed to **55 tasks** after a critical review by a group of 13 subject matter experts. The 20 tasks were either repetitions, exceeded the scope of practice, or were too specific to be considered stand-alone tasks. The agreed upon 55 tasks were common activities anesthetists perform in their daily practice in the health care or community setting.

The bled mixes of knowledge, skills, and attitudes that construct each task were then identified as higher-order assessment objectives, ensuring alignment with the overarching task, competency, and domain.

Finally, congruent assessment methods were selected and relative emphasis was assigned per task, competency, and domain levels. This blueprint recommended three types of assessment methods: two for the cognitive domain (written exam and structured oral exam formats) and an objective structured clinical exam (OSCE) for clinical skills and affective domain. These methods were selected based on their proven psychometric properties.

The written exam shall employ the single best answer multiple choice question (MCQ) format which is predominantly context-based to assess higher-order thinking. There should also be an adequate number of items on the exam, most experts recommend 150-200 MCQs for written exams.

On the other hand, the practical exam will be OSCE encompassing various key tasks such as communication (history taking, counseling, and patient education), performing a physical examination, procedures, and at times interpreting diagnostic tests and abnormal findings. Taking feasibility into account, one integrated OSCE with 12-16 stations involving each competency area and each lasting approximately 10 minutes shall be designed.

Setting emphasis

Once the final list of 55 tasks was agreed upon, the 12 senior anesthesia subject matter experts were briefed on the 5-point importance-by-frequency rating scheme, and a virtual survey was sent to them (twice) to rate each task using the importance-by-frequency grid. Rating descriptions were as follows:

<u>Importance</u>: This rating indicates how important this task is for intern anesthetists' effective performance in their practice when compared to other tasks. 1 = nearly not important at all; 2 = less important; 3 = moderately important; 4 = very important; and 5 = critically important.

<u>Frequency</u>: This rating indicates how frequently or infrequently intern anesthetists will perform this task during their practice. 1 = never; 2 = rarely; 3 = seldom; 4 = regularly; 5 = very often.

For each task rating, composite scores were calculated (from the second-round rating) by multiplying the mean importance score by the mean frequency score. Considering the total emphasis as 100% relative emphasis was calculated for each task.

The emphasis at the task level was added up to compute the emphasis at the competency and domain levels. The below table demonstrated summary emphasis per domain/ major role (table 1). Furthermore, the sample number of items is indicated in the table below, assuming a 200-item MCQ-based exam is designed.

Domains and competencies	Emphasis (%)	# of items
Domain 1: Patient care	85.0%	170
C1: Assess, optimize, and prepare patients for	15%	30
anesthesia and surgery		
C2: Prepare & utilize anesthesia machines,	17%	34
equipment, supply, and monitoring devices		
C3: Manage patients' airways using different	12%	24
modalities		
C4: Manage safe anesthesia	22.5%	45
C5: Provide postoperative anesthetic care	6%	12
C6: Manage pain for different patient groups	3.5%	7
C7: Engage in pre-hospital, emergency, and critical	3.5%	7
care services		
C8: Perform cardiopulmonary resuscitation (CPR)	5.5%	11
Domain 2: Professionalism and ethics	8.0%	16
Domain 3: Education, research, and EBP	2.5%	5
Domain 4: Leadership and management	3.0%	6
Domain 5: Health promotion and disease prevention	1.5%	3
Total	100%	200

 Table 1: Sample summary emphasis table for a 200-items based exam

A two-dimensional content-by-process summary matrix with raw and column emphasis driven by the frequency-by-importance rating is shown below (table 2) for core professional competencies (C1-C5) that account for nearly three-fourths of the total emphasis (72.5%).

Table 2: Content by process two-dimensional blueprint summary with emphasis

Area	C1: Assess, optimize, & prepare patients [15%]	C2: Prepare & utilize anesthesia machines, equipment, and devices [17%]	C3: Manage patients' airways [12%]	C4: Manage safe anesthesia [22.5%]	C5: Provide postoperative anesthetic care [6%]	Total
Obstetrics and gynecologic anesthesia	2.0	2.0	2.0	4.0	1.0	11.0
Pediatric and neonatal anesthesia	1.5	1.5	1.0	2.0	0.5	6.5
Geriatric anesthesia	1.0	1.0	1.0	1.5	0.5	5.0
General and urologic surgery anesthesia	2.0	2.5	1.0	2.5	0.5	8.0
Trauma and orthopedic anesthesia	2.0	2.0	1.0	2.5	0.5	8.0
Neurosurgery anesthesia	1.0	1.0	1.0	1.5	0.5	5.0
Thoracic emergency anesthesia	0.5	0.5	0.5	0.5	0.0	2.0

Area	C1: Assess, optimize, & prepare patients [15%]	C2: Prepare & utilize anesthesia machines, equipment, and devices [17%]	C3: Manage patients' airways [12%]	C4: Manage safe anesthesia [22.5%]	C5: Provide postoperative anesthetic care [6%]	Total
Maxillofacial and ENT	0.5	1.0	0.5	1.0	0.5	25
anestnesia	0.5	1.0	0.5	1.0	0.5	3.5
Ophthalmic anesthesia	0.5	0.5	0.5	0.5	0.0	2.0
Day-case and remote anesthesia	0.5	0.5	0.0	0.5	0.0	1.5
Regional anesthesia	1.5	2.5	2.0	3.5	1.0	10.5
Anesthesia for common co-						
existing disorders	2.0	2.0	1.5	2.5	1.0	9.0
Total	15.0	17.0	12.0	22.5	6.0	72.5

The above two-dimensional summary matrix creates the opportunity to visualize what percentage of the exam is allocated to different patient care processes. Accordingly, the majority of patient care percent emphasis is allocated to intraoperative anesthesia management, followed by preoperative equipment/drug preparation and airway management.

Anesthesia training programs are strongly advised to use the above summary framework (table 2) to monitor the appropriateness of emphasis set to competencies as well as the care process. It is also commendable to use this framework to analyze exam results in order to identify exam performance gaps by competence and care process areas.

How to use this document

This blueprint can be used by faculty and departments to develop high-quality qualification or comprehensive exams. The blueprint framework can be used to organize and build question banks so that exam assembly and administration are easier. It helps standardize exams and improve their quality thereby making inferences defensible and acceptable to all stakeholders. Departments are also encouraged to share the blueprint with students to help them focus on key competencies and essential knowledge, skills, and professional behaviors expected of them. Sharing a blueprint for students is in line with the "principles of fairness" of high-stakes exams and international best practices.

However, for the exam blueprint to have its desired impact, exam items should be carefully designed. The quality of the questions crafted should match the key competencies and learning outcomes outlined in the exam blueprint. Besides, faculty should give attention to writing high-quality items aligned with assessment objectives. An item review session by peers is also recommended before items appear on exams or are stored in a question bank.

A sample integrated exam blueprint for OSCE is provided separately. Anesthesia departments must ensure that the total emphasis for OSCE is at least 40% and not more than 50%.

륎

Domain 1: Patient care [85%]

r 🖥

	Competencies, tasks, and Objectives	Format + Methods	Emphasis
Competency	1: Assess, optimize, and prepare patients for anesth	esia and surgery	15.0%
Task 1.1.1. Pe	erform comprehensive pre-anesthetic patient assessmen	t	3.5%
Assessment	AO1: Take a pre-anesthetic history from patients	OSCE/ MCQ	
Objectives	relevant to anesthesia and surgery.		
(AO)	AO2: Perform physical examination relevant to	OSCE	
	anesthesia and surgery.		
	AO3: Choose relevant laboratory and diagnostic	MCQ/Oral	
	investigations as per patient indication		
	AO4: Interpret Laboratory findings & Imaging relevant	MCQ	
	to anesthesia		
	AO5: Select routine medications and anesthetic	MCQ	
	agents		
Task 1.1.2. De	etermine the clinical status of a patient		3.5%
Assessment	AO1:-Score and stratify patient clinical status	MCQ/ SOE	
Objectives	AO2: Decide patient fitness for anesthesia	MCQ	
(AO)	AO3: Explain components of an anesthesia	MCQ/Oral	
	management plan based on pre-anesthetic		
	assessment findings		0.00/
Task 1.1.3. Of	tain informed consent		3.0%
Assessment	AO1: Revise components of informed consent	MCQ/Oral	
Objectives	AO2: Provide appropriate and adequate information	OSCE	
(AO)	on the anesthetic management plan	0005	
	AO3: Check comprehension of patients, patient	OSCE	
	families, and other legal body		
	AO4: Respect patients, patient families, and other	MCQ	
T 1 4 4 4 D	legal body decisions and choices		0.5%
Task 1.1.4. Pr	epare patients for anestnesia and surgery	1400	2.5%
Assessment	AO1: Calculate intravenous fluid requirement based	MCQ	
Objectives	on patient conditions		
(AO)	AO2: Differentiate intravenous fluids with their	MCQ	
		0005	
	AO3: Perform basic nursing procedures (e.g.	OSCE	
	catheterization, NGT insertion, IV)	0005/1400	
	AO4: Prepare emergency drugs required for the	OSCE/ MCQ	
	provision of safe anestnesia		
T 1 4 4 - -	AU5: Decide patient specific fasting guidelines	MCQ	0.001
1 ask 1.1.5. Op	otimize patients for surgery and anesthesia		3.0%
Assessment	AO1: Select appropriate premedication drugs as per	Ural/MCQ	
Objectives	the nealth status of the surgical patient		
(AU)	AO2: Demonstrate patient and family counseling and	Oral	

	Competencies, tasks, and Objectives	Format + Methods	Emphasis
	education		
	AO3: Justify preoperative cessation of smoking quidelines for Surgical patients	MCQ/ SOE	
	AO4: Decide preoperative drug discontinuation/ continuation that is relevant to anesthesia and surgery.	Oral/MCQ	
Competency	2: Prepare and utilize anesthesia machines, equipme	ent, supply, and	17.0%
monitoring d	evices properly		
Task 1.2.1. Ap	pply standard safety measures to manage perioperative I	hazards	2.0%
Assessment Objectives	AO1: Recognize the possible hazards that happen in Anesthesia practice	Oral/MCQ	
(AO)	AO2: Design strategies to minimize professional hazards of anesthesia including operating room pollution	MCQ	
	AO3: Apply the principle of infection prevention	OSCE/SOE	
	AO4: Apply measures to reduce position and procedure-related injuries	OSCE/ SOE	
	AO5: Apply measures to reduce surgical error and	OSCE/ SOE	
Tack 1 2 2 Dr	patient nam	to accontable	2.5%
nractice stand	and protocols		2.570
Assessment	AO1: Check the availability functionality and	OSCE	
Objectives	connection of medical das sources	COOL	
(AQ)	AQ2 ⁻ Differentiate medical gas sources	MCQ/SOF	
()	AO3: Identify types of medical gases	MCQ/SOF	
	AO4: Perform troubleshooting on pipeline, cylinders	OSCE	
Task 1.2.3. Pr	epare and utilize anesthesia machines safely		4.0%
Assessment Objectives	AO1: Recognize different parts of the anesthesia machine	MCQ/SOE	
(AO)	AO2: Perform routine anesthesia machine	OSCE	
	AO3: Operate Anesthesia machine to administer medical gases and volatile anesthetic agents	OSCE	
	AO4: Solve routine anesthesia machine malfunction	OSCE	
Task 1.2.4. Ar	pply and utilize standard patient monitoring		3.0%
Assessment	AO1: Justify standards of patient monitoring	Oral/Written	
Objectives	AO2: Apply standards of patient monitoring devices	OSCE	
(AO)	AO3: Interpret common findings from standards patient monitoring (Pulseoxymetery & FTCO2)	OSCE/Written	
	AO4: Interpret 12 lead ECG	OSCE/Written	

	Competencies, tasks, and Objectives	Format + Methods	Emphasis	
Task 1.2.5. Ch	neck & prepare airway equipment		3.0%	
Assessment	AO1: Assemble standard airway equipment	OSCE		
Objectives	AO2: Select airway equipment for different age	OSCE		
(AO)	groups and procedure			
	AO3: Select airway & ancillary equipment used in the	MCQ/OSCE		
	management of difficult airway			
Task 1.2.6. Ut	ilize ancillary anesthetic equipment & materials		2.0%	
Assessment	AO1: Select appropriate anesthetic breathing	MCQ/SOE		
Objectives	systems			
(AO)	AO2: Utilize defibrillator for shockable cardiac arrest	OSCE		
	rhythms			
Competency	3: Manage patients' airways using different modalitie	es	12.0%	
Task 1.3.1. As	sess patients' airways		3.5%	
Assessment	AO1: perform airway examination using different	OSCE		
Objectives	parameters			
(AO)	AO2: Identify patients with difficult airways using	MCQ/SOE		
	relevant history			
	AO3: Develop airway management plan	SOE/OSCE		
Task 1.3.2. Ma	anage patients' airways using basic airway management	techniques	4.0%	
Assessment	AO1: Apply simple airway maneuvers	OSCE		
Objectives	AO2: Perform bag-mask ventilation	OSCE		
(AO)	AO3: Utilize airways (oral & nasopharyngeal)	OSCE		
Task 1.3.3. Ma	anage patients' airways using advanced airway manager	nent modalities	4.5%	
Assessment	AO1: Utilize supraglottic devices (SGDs) LMAs,	OSCE		
Objectives	AO2: Perform endotracheal intubation (nasal and	OSCE		
(AO)	oral)			
	AO3: Apply other alternative measures between	MCQ/OSCE		
	airway management attempts			
	AO4: Manage patients with difficult airways according	OSCE/SOE		
	to acceptable guidelines (DAS/ASA)			
	AO5: Recognize the need for consultation for further	MCQ/SOE		
	airway management			
	AO6: Perform extubation based on extubation criteria	OSCE		
	AO7: Manage common airway management			
	complications		00.5%	
Task 1.4.1 Manage anosthosia for obstatrics and gungeslagic surgeries				
1 ask 1.4.1. Ma	anage anestnesia for obstetrics and gynecologic surgerie		4.0%	
Assessment	AO I: JUSTITY THE Effect of different anatomic changes	wicg/Orai		
	or pregnancy on the intraoperative anesthetic			
(AU)	management	MCO/Oral		

	Competencies, tasks, and Objectives	Format + Methods	Emphasis
	changes of pregnancy on the intraoperative		
	anesthetic management		
	AO3: Manage anesthesia for clients undergoing	MCQ/Oral	
	obstetrics surgery		
	AO4: Manage anesthesia for patients undergoing	MCQ/Oral	
	gynecologic surgery		
	AO5: Manage intraoperative complications during	MCQ/Oral	
	obstetrics and gynecologic surgery		
	AO6: Perform neonatal resuscitation	OSCE	
	AO7: Manage anesthesia for high-risk pregnancy	MCQ	
	AO8: Manage anesthesia for a pregnant woman	MCQ/Oral	
	coming for non-obstetric surgery		
Task 1.4.2. Ma	anage anesthesia for pediatric and neonatal surgeries		2.0%
Assessment	AO1: Explain the anesthetic implication of the	MCQ/Oral	
Objectives	anatomic differences between children and adults		
(AO)	AO2: Explain the anesthetic implication of	MCQ/Oral	
	physiological and psychological differences between		
	children and adults		
	AO3: Explain the anesthetic implication of the	MCQ/Oral	
	pharmacological differences between children and		
	adults		
	AO4: Manage intraoperative anesthesia for common	MCQ/Oral	
	pediatrics and neonatal emergency surgeries ¹		
	AO5: Manage common intraoperative complications	MCQ/Oral	
	during pediatrics and neonatal emergency surgeries		
	AO6: Manage anesthesia for pediatrics and neonate	MCQ/Oral	
	with common ² comorbidities		
Task 1.4.3. Ma	anage anesthesia for geriatric patients undergoing surge	ries	1.5%
Assessment	AO1: Apprise the implications of aging on anesthesia	Oral	
Objectives	management		
(AO)	AO2: Select appropriate anesthetic drugs and	MCQ/Oral	
	techniques for geriatric patients undergoing surgery		
	AO3: Provide intraoperative anesthesia care for	MCQ/Oral	
	geriatric patients		
	AO5: Manage common intra-operative complications	Oral	
	for geriatrics		
Task 1.4.4. Ma	anage anesthesia for different general and urologic surgi	ical procedures	2.5%
Assessment	AO1: Apply different components of ERAS for	MCQ/Oral	
Objectives	anesthesia management		

r 🐉

¹ Common surgeries include: IHPS, Intussusception, MMC, Abdominal wall defects ² common comorbidities include: URTI, OSA and congenital anomalies

(AO) AO2: Predict the effects of different anesthetic drugs on body systems MCQ AO3: Select appropriate anesthetic drugs and techniques for common general and urology surgery MCQ/Oral AO4: Manage common intra-operative complications during general and urology surgery MCQ/Oral Task 1.4.5. Manage anesthesia for trauma, orthopedic surgeries and burn 2.5% AO2: Provide intra-operative anesthesia for trauma MCQ/Oral AO2: Provide intra-operative complications during orthopedic surgery MCQ/Oral AO3: Manage intraoperative complications during orthopedic and trauma patients Oral AO4: Apply principles of damage control resuscitative surgery MCQ/Oral AO5: Manage anesthesia for a patient with burn MCQ AO5: Administer fluid, electrolyte and blood products MCQ Task 1.4.6. Manage anesthesia for neurosurgeries MCQ AO2: Explain the effect of different neurosurgical positioning in anesthetic management MCQ AO2: Administer fluids for neurosurgeries MCQ/Oral AO2: Explain the effect of neurosurgeries MCQ/Oral AO3: Manage intraoperative complications during neurosurgeries MCQ/Oral AO3: Compare intervide anesthesia for neurosurgeries MCQ/Oral AO4: Advinity rovide anesthesia for neurosurgeries MCQ/Oral		Competencies, tasks, and Objectives	Format + Methods	Emphasis
on body systems MCQ/Oral AO3: Select appropriate anesthetic drugs and techniques for common general and urology surgery MCQ/Oral AO4: Manage common intra-operative complications during general and urology surgery MCQ/Oral Assessment AO1: Manage different types of shock MCQ/Oral Objectives AO2: Provide intra-operative anesthesia for trauma and orthopedic surgery MCQ/Oral AO3: Manage intraoperative complications during orthopedic and trauma patients Oral Oral AO4: Apply principles of damage control resuscitative surgery MCQ/Oral MCQ/Oral AO4: Apply principles of damage control resuscitative surgery MCQ Instrumental AO4: Apply principles of damage control resuscitative surgery MCQ Instrumental AO4: Apply principles of damage control resuscitative surgery MCQ Instrumental AO5: Manage anesthesia for a patient with burn MCQ Instrumental AO4: Apply principles of different neurosurgeries MCQ Instrumental AO2: Explain the effect of different neurosurgeries MCQ Instrumental AO3: Select the appropriate anesthetic drugs and positioning in anesthetic management MCQ/Oral AO3: Nanage intraoperative complications during neurosur	(AO)	AO2: Predict the effects of different anesthetic drugs	MCQ	
AO3: Select appropriate anesthetic drugs and techniques for common general and urology surgery MCQ/Oral AO4: Manage common intra-operative complications during general and urology surgery MCQ/Oral Task 1.4.5. Manage anesthesia for trauma, orthopedic surgeries and burn 2.5% Assessment (AO) AO1: Manage different types of shock MCQ/Oral Objectives AO2: Provide intra-operative anesthesia for trauma and orthopedic surgery MCQ/Oral AO3: Manage intraoperative complications during orthopedic and trauma patients Oral Oral AO4: Apply principles of damage control resuscitative surgery MCQ/Oral AO3: Manage anesthesia for neurosurgeries AO6: Administer fluid, electrolyte and blood products MCQ AO4: Apply principles of neurosurgeries ASsessment (AO) AO1: Administer fluid, electrolyte and blood products MCQ AO3: Manage anesthesia for neurosurgeries MCQ AO3: Manage raised ICP ASsessment (AO) AO1: Administer fluids for neurosurgeries MCQ AO3: Manage raised ICP MCQ/Oral AO3: Manage raised ICP AO5: Manage anesthesia for neurosurgeries MCQ/Oral AO3: Manage raised ICP (AO) AO4: Provide anesthesia for neurosurgeries MCQ/Oral		on body systems		
Interview Interview <thinterview< th=""> <thinterview< th=""> <thi< td=""><td></td><td>AO3: Select appropriate anesthetic drugs and</td><td>MCQ/Oral</td><td></td></thi<></thinterview<></thinterview<>		AO3: Select appropriate anesthetic drugs and	MCQ/Oral	
AO4: Manage common intra-operative complications during general and urology surgery MCQ/Oral Task 1.4.5. Manage anesthesia for trauma, orthopedic surgeries and burn 2.5% Assessment Objectives AO1: Manage different types of shock MCQ/Oral AO2: Provide intra-operative anesthesia for trauma and orthopedic surgery MCQ/Oral Image AO3: Manage intraoperative complications during orthopedic and trauma patients Oral Image AO4: Apply principles of damage control resuscitative surgery MCQ/Oral Image AO5: Manage anesthesia for a patient with burn MCQ Image AO6: Administer fluid, electrolyte and blood products MCQ/Oral Image ASsessment AO1: Administer fluids for neurosurgeries MCQ Image AO3: Manage anesthesia for neurosurgeries MCQ Image Image AO3: Manage anesthesia care for neurosurgeries MCQ Image Image AO3: Manage intraoperative complications during neurosurgeries MCQ/Oral Image Image AO3: Manage intraoperative complications during neurosurgeries MCQ/Oral Image Image AO4: Provide anesthesia for emergency thoracic surgeries MCQ/Oral		techniques for common general and urology surgery		
during general and urology surgery Image anesthesia for trauma, orthopedic surgeries and burn 2.5% Assessment AO1: Manage different types of shock MCQ/Oral MCQ/Oral (AO) AO2: Provide intra-operative anesthesia for trauma and orthopedic surgery MCQ/Oral Image different types of shock MCQ/Oral (AO) AO3: Manage intraoperative complications during orthopedic and trauma patients Oral Image AO4: Apply principles of damage control resuscitative surgery MCQ/Oral Image Image AO5: Manage anesthesia for a patient with burn MCQ AO5: Administer fluid, electrolyte and blood products MCQ/Oral ASessesment AO1: Administer fluids for neurosurgeries MCQ Image AO2: Explain the effect of different neurosurgical MCQ AO2: Explain the effect of different neurosurgeries MCQ/Oral Image AO3: Manage raised ICP MCQ/Oral AO3: Manage intraoperative complications during neurosurgeries MCQ/Oral Image AO5: Monage intraoperative complications during MCQ/Oral AO4: Provide anesthesia for head injury patients Image Image Image Image AO5: Manage intraoperative complications during toracic s		AO4: Manage common intra-operative complications	MCQ/Oral	
Task 1.4.5. Manage anesthesia for trauma, orthopedic surgeries and burn 2.5% Assessment AO1: Manage different types of shock MCQ/Oral Objectives AO2: Provide intra-operative anesthesia for trauma MCQ/Oral (AO) AO3: Manage intra-operative anesthesia for trauma MCQ/Oral AO3: Manage intra-operative complications during orthopedic and trauma patients Oral Image: Complexity of the complexity of t		during general and urology surgery		
Assessment AO1: Manage different types of shock MCQ/Oral Objectives AO2: Provide intra-operative anesthesia for trauma and orthopedic surgery MCQ/Oral AO3: Manage intraoperative complications during orthopedic and trauma patients Oral AO4: Apply principles of damage control resuscitative surgery MCQ/Oral AO5: Manage anesthesia for a patient with burn MCQ AO6: Administer fluid, electrolyte and blood products MCQ/Oral Task 1.4.6. Manage anesthesia for neurosurgeries MCQ AO6: Administer fluids for neurosurgeries MCQ AO2: Explain the effect of different neurosurgical positioning in anesthetic management MCQ AO3: Manage intraoperative complications during neurosurgeries MCQ/Oral AO4: Provide anesthesia for neurosurgeries MCQ/Oral AO5: Manage intraoperative complications during neurosurgeries MCQ/Oral AO4: Provide anesthesia for meargency thoracic surgeries 0.5% Assessment AO1: Select the appropriate anesthetic drugs and techniques for patients undergoing emergency thoracic surgery MCQ/Oral AO3: Recognize the effects of positioning and anesthesia on respiratory mechanics MCQ/Oral AO3: Recognize the effects of positioning and anesthesia on respiratory mechanics MCQ/Oral AO3:	Task 1.4.5. Ma	anage anesthesia for trauma, orthopedic surgeries and b	ourn	2.5%
Objectives (AO) AO2: Provide intra-operative anesthesia for trauma and orthopedic surgery MCQ/Oral AO3: Manage intraoperative complications during orthopedic and trauma patients Oral AO4: Apply principles of damage control resuscitative surgery MCQ/Oral AO5: Manage anesthesia for a patient with burn MCQ AO6: Administer fluid, electrolyte and blood products MCQ ASsessment AO1: Administer fluids for neurosurgeries MCQ AO2: Explain the effect of different neurosurgical positioning in anesthetic management MCQ/Oral AO4: Provide anesthesia for neurosurgeries MCQ/Oral AO4: Provide anesthesia care for neurosurgeries MCQ/Oral AO4: Provide anesthesia for head injury patients AO6: Provide anesthesia for head injury patients Task 1.4.7. Manage anesthesia for emergency thoracic surgeries AO1: Select the appropriate anesthetic drugs and techniques for patients undergoing emergency MCQ/Oral AO2: Differentiate common intraoperative complications during thoracic surgery MCQ/Oral AO3: Recognize the effects of positioning and anesthesia on respiratory mechanics MCQ/Oral AO4: Perform lung isolation using DLT & classic ETT OSCE AO4: Perform lung isolation using DLT & classic ETT OSCE AO4: Perform lung isolation usin	Assessment	AO1: Manage different types of shock	MCQ/Oral	
(AO) and orthopedic surgery Oral AO3: Manage intraoperative complications during orthopedic and trauma patients Oral AO4: Apply principles of damage control resuscitative surgery MCQ/Oral AO5: Manage anesthesia for a patient with burn MCQ AO6: Administer fluid, electrolyte and blood products MCQ/Oral Task 1.4.6. Manage anesthesia for neurosurgeries MCQ AO2: Explain the effect of different neurosurgical positioning in anesthetic management MCQ AO3: Manage raised ICP MCQ/Oral AO6: Provide anesthesia for neurosurgeries MCQ/Oral AO6: Provide anesthesia for nearosurgeries 0.5% Assessment AO1: Select the appropriate anesthetic drugs and techniques for patients undergoing emergency thoracic surgery MCQ/Oral AO2: Differentiate common intraoperative complications during thoracic surgery MCQ/Oral AO3: Recognize the effects of positioning and anesthesia on respiratory mechanics MCQ/Oral AO4: Perform lung isolation using DLT & classic ETT OSCE AO5: Manage anesthesia for one lung ventilation <td>Objectives</td> <td>AO2: Provide intra-operative anesthesia for trauma</td> <td>MCQ/Oral</td> <td></td>	Objectives	AO2: Provide intra-operative anesthesia for trauma	MCQ/Oral	
AO3: Manage intraoperative complications during orthopedic and trauma patientsOralAO4: Apply principles of damage control resuscitative surgeryMCQ/OralAO5: Manage anesthesia for a patient with burnMCQAO6: Administer fluid, electrolyte and blood productsMCQ/OralTask 1.4.6. Manage anesthesia for neurosurgeriesMCQAO2: Explain the effect of different neurosurgical positioning in anesthetic managementMCQAO3: Manage raised ICPMCQ/OralAO4: Provide anesthesia for neurosurgeriesMCQ/OralAO3: Manage raised ICPMCQ/OralAO4: Provide anesthesia for neurosurgeriesMCQ/OralAO5: Manage raised ICPMCQ/OralAO5: Manage intraoperative complications during neurosurgeriesMCQ/OralAO5: Provide anesthesia for nearbing metrosurgeriesMCQ/OralAO5: Differentiate common intraoperative complications during thoracic surgeryMCQ/OralAO2: Differentiate common intraoperative complications during thoracic surgeryMCQ/OralAO3: Recognize the effects of positioning and anesthesia on respiratory mechanicsMCQ/OralAO4: Perform lung isolation using DLT & classic ETT AO5: Manage anesthesia for one lung ventilation AO6: Manage anesthesia for one lung ventilation AO6: Provide intra-operative complications during thoracic surgeryMCQ/OralAO4: Perform lung isolation using DLT & classic ETT AO5: Manage anesthesia for one lung ventilation AO6: Nanage anesthesia for one lung ventilation AO6: Nanage anesthesia for maxillofacial and ENT surgeries1.0%ASsessment ObjectivesAO1: Provide intra-operative anesthetic	(AO)	and orthopedic surgery		
orthopedic and trauma patientsMCQ/OralAO4: Apply principles of damage control resuscitative surgeryMCQ/OralAO5: Manage anesthesia for a patient with burnMCQAO6: Administer fluid, electrolyte and blood productsMCQ/OralTask 1.4.6. Marage anesthesia for neurosurgeriesMCQAO2: Explain the effect of different neurosurgical positioning in anesthetic managementMCQAO3: Manage raised ICPMCQ/OralAO4: Provide anesthesia for neurosurgeriesMCQ/OralAO3: Manage raised ICPMCQ/OralAO4: Provide anesthesia care for neurosurgeriesMCQ/OralAO5: Manage intraoperative complications during neurosurgeriesMCQ/OralAO5: Provide anesthesia for neergency thoracic surgeries0.5%AssessmentAO1: Select the appropriate anesthetic drugs and thoracic surgeryMCQ/OralAO2: Differentiate common intraoperative complications during thoracic surgeryMCQ/OralAO3: Recognize the effects of positioning and anesthesia on respiratory mechanicsMCQ/OralAO4: Perform lung isolation using DLT & classic ETTOSCEAO4: Perform lung isolation using DLT & classic ETTOSCEAO4: Extubate after thoracic emergency surgeriesMCQ/OralAO4: Extubate after thoracic emergency surgeriesMCQ/OralAO4: Extubate after thoracic emergency surgeriesMCQ/OralAO4: Differentiate complications during thoracic surgeryMCQ/OralAO4: Differentiate common intraoperative AO4: Perform lung isolation using DLT & classic ETTOSCEAO4: Extubate after thoracic emergency surgeri		AO3: Manage intraoperative complications during	Oral	
AO4: Apply principles of damage control resuscitative surgery MCQ/Oral AO5: Manage anesthesia for a patient with burn MCQ AO6: Administer fluid, electrolyte and blood products MCQ/Oral Task 1.4.6. Manage anesthesia for neurosurgeries MCQ ASsessment AO1: Administer fluids for neurosurgeries MCQ Objectives AO2: Explain the effect of different neurosurgeries MCQ (AO) Positioning in anesthetic management MCQ/Oral AO3: Manage raised ICP MCQ/Oral AO4: Provide anesthesia care for neurosurgeries AO5: Nanage intraoperative complications during neurosurgeries MCQ/Oral AO5: Manage intraoperative complications during AO6: Provide anesthesia for head injury patients AO6: Second anesthesia for head injury patients MCQ/Oral Task 1.4.7. Manage anesthesia for emergency thoracic surgeries 0.5% ASsessment AO1: Select the appropriate anesthetic drugs and MCQ/Oral Objectives techniques for patients undergoing emergency MCQ/Oral AO2: Differentiate common intraoperative MCQ/Oral AO2: Differentiate common intraoperative CoC/Oral AO3: Recognize the effects of positioning and anesthesia on respiratory mechanics MCQ/Oral <		orthopedic and trauma patients		
surgeryAQ5: Manage anesthesia for a patient with burnMCQAQ6: Administer fluid, electrolyte and blood productsMCQ/OralTask 1.4.6. Manage anesthesia for neurosurgeriesMCQAssessmentAQ1: Administer fluids for neurosurgeriesMCQObjectivesAQ2: Explain the effect of different neurosurgical positioning in anesthetic managementMCQ/OralAQ3: Manage raised ICPMCQ/OralAQ4: Provide anesthesia care for neurosurgeriesMCQ/OralAQ5: Manage intraoperative complications during neurosurgeriesMCQ/OralAQ6: Provide anesthesia for head injury patients0.5%Task 1.4.7. Manage anesthesia for emergency thoracic surgeries0.5%AO5: Differentiate common intraoperative complications during thoracic surgeryMCQ/OralAQ2: Differentiate common intraoperative complications during thoracic surgeryMCQ/OralAQ3: Recognize the effects of positioning and anesthesia on respiratory mechanicsMCQ/OralAQ4: Perform lung isolation using DLT & classic ETT AQ5: Manage anesthesia for one lung ventilationMCQ/OralAQ5: Differentiate common intraoperative complications during thoracic surgeryMCQ/OralAQ3: Recognize the effects of positioning and anesthesia on respiratory mechanicsMCQ/OralAQ4: Perform lung isolation using DLT & classic ETT AQ5: Manage anesthesia for one lung ventilationMCQ/OralAQ6: Advi entraoperative complications during thoracic surgeryMCQ/OralAQ3: Recognize the effects of positioning and anesthesia on respiratory mechanicsMCQ/OralAQ4: Perform lung isolation using DLT		AO4: Apply principles of damage control resuscitative	MCQ/Oral	
AO5: Manage anesthesia for a patient with burnMCQAO6: Administer fluid, electrolyte and blood productsMCQ/OralTask 1.4.6. Manage anesthesia for neurosurgeriesMCQAssessmentAO1: Administer fluids for neurosurgeriesMCQObjectivesAO2: Explain the effect of different neurosurgical positioning in anesthetic managementMCQAO3: Manage raised ICPMCQ/OralAO4: Provide anesthesia care for neurosurgeriesMCQ/OralAO5: Manage intraoperative complications during neurosurgeriesMCQ/OralAO6: Provide anesthesia for head injury patients0.5%AssessmentAO1: Select the appropriate anesthetic drugs and techniques for patients undergoing emergencyMCQ/Oral(AO)thoracic surgery0.5%AO2: Differentiate common intraoperative complications during thoracic surgeryMCQ/OralAO3: Recognize the effects of positioning and anesthesia on respiratory mechanicsMCQ/OralAO4: Perform lung isolation using DLT & classic ETTOSCEAO4: Extubate after thoracic emergency surgeriesMCQ/OralAO4: Extubate after thoracic emergency surgeriesMCQ/OralAO3: Recognize the effects of positioning and anesthesia on respiratory mechanicsMCQ/OralAO4: Extubate after thoracic emergency surgeriesMCQ/OralAO4: Extubate after thoracic emergency surgeriesMCQ/OralAO4: Extubate after thoracic emergency surgeriesMCQ/OralAO4: Perform lung isolation using DLT & classic ETTOSCEAO4: Extubate after thoracic emergency surgeriesMCQ/OralAO4: Extu		surgery		
AO6: Administer fluid, electrolyte and blood productsMCQ/OralTask 1.4.6. Manage anesthesia for neurosurgeries1.5%AssessmentAO1: Administer fluids for neurosurgeriesMCQObjectivesAO2: Explain the effect of different neurosurgical positioning in anesthetic managementMCQAO3: Manage raised ICPMCQ/OralAO4: Provide anesthesia care for neurosurgeriesMCQ/OralAO5: Manage intraoperative complications during neurosurgeriesMCQ/OralAO6: Provide anesthesia for head injury patientsAO6AO6: Provide anesthesia for head injury patients0.5%AssessmentAO1: Select the appropriate anesthetic drugs and techniques for patients undergoing emergency thoracic surgeryMCQ/OralAO2: Differentiate common intraoperative complications during thoracics of positioning and anesthesia on respiratory mechanicsMCQ/OralAO4: Perform lung isolation using DLT & classic ETT AO5: Manage anesthesia for one lung ventilationMCQ/OralAO4: Perform lung isolation using DLT & classic ETT AO6: Manage anesthesia for one lung ventilationMCQ/OralAO4: Extubate after thoracic emergency surgeriesMCQ/OralAO4: Extubate after thoracic emergency surgeriesMCQ/OralAO4: Extubate after thoracic emergency surgeriesMCQ/OralAO6: Manage anesthesia for maxillofacial and ENT surgeriesMCQ/OralAO4: Perform lung isolation and thoracic surgeryMCQ/OralAO4: Extubate after thoracic emergency surgeriesMCQ/OralAO4: Extubate after thoracic emergency surgeriesMCQ/OralAO4: Extubate after thor		AO5: Manage anesthesia for a patient with burn	MCQ	
Task 1.4.6. Manage anesthesia for neurosurgeries1.5%Assessment Objectives (AO)AO1: Administer fluids for neurosurgeriesMCQAO2: Explain the effect of different neurosurgical positioning in anesthetic managementMCQAO3: Manage raised ICPMCQ/OralAO4: Provide anesthesia care for neurosurgeriesMCQ/OralAO5: Manage intraoperative complications during neurosurgeriesMCQ/OralAO6: Provide anesthesia for head injury patientsMCQ/OralTask 1.4.7. Manage anesthesia for emergency thoracic surgeries0.5%Assessment ObjectivesAO1: Select the appropriate anesthetic drugs and techniques for patients undergoing emergency thoracic surgeryMCQ/OralAO2: Differentiate common intraoperative complications during thoracic surgeryMCQ/OralAO3: Recognize the effects of positioning and anesthesia or respiratory mechanicsMCQ/OralAO4: Perform lung isolation using DLT & classic ETT AO3: Recognize the effect or oplications during thoracic surgeryMCQ/OralAO4: Extubate after thoracic emergency surgeries AO4: Extubate after thoracic emergency surgeriesMCQ/OralAO4: Extubate after thoracic emergency surgeries AO4: Extubate after thoracic emergency surgeriesMCQ/OralAO4: Extubate after thoracic emergency surgeries AO4: Extubate after thoracic emergency surgeriesMCQ/OralAO4: Extubate after thoracic emergency surgeries AO4: Extubate after thoracic emergency surgeriesMCQ/OralAO4: Extubate after thoracic emergency surgeries AO4: Extubate after thoracic emergency surgeriesMCQ/OralAO4: Provide intra-operative anesthet		AO6: Administer fluid, electrolyte and blood products	MCQ/Oral	
Assessment Objectives (AO)AO1: Administer fluids for neurosurgeriesMCQAO2: Explain the effect of different neurosurgical positioning in anesthetic managementMCQ/OralAO3: Manage raised ICPMCQ/OralAO4: Provide anesthesia care for neurosurgeriesMCQ/OralAO5: Manage intraoperative complications during neurosurgeriesMCQ/OralAO6: Provide anesthesia for head injury patientsMCQ/OralTask 1.4.7. Manage anesthesia for emergency thoracic surgeries0.5%Assessment Objectives (AO)AO1: Select the appropriate anesthetic drugs and techniques for patients undergoing emergency thoracic surgeryMCQ/OralAO2: Differentiate common intraoperative complications during thoracic surgeryMCQ/OralAO3: Recognize the effects of positioning and anesthesia on respiratory mechanicsMCQ/OralAO4: Perform lung isolation using DLT & classic ETT AO5: Manage anesthesia for one lung ventilationMCQ/OralAO4: Perform lung isolation using DLT & classic ETT AO5: Manage anesthesia for one lung ventilationMCQ/OralAO4: Perform lung isolation using DLT & classic ETT AO5: Manage anesthesia for one lung ventilationMCQ/OralAO4: Extubate after thoracic emergency surgeriesMCQ/OralAO4: Extubate after thoracic emergency surgeriesMCQ/OralAO4: Extubate after thoracic and ENT surgeries1.0%Assessment ObjectivesAO1: Provide intra-operative anesthetic care for maxillofacial and ENT surgery	Task 1.4.6. Ma	anage anesthesia for neurosurgeries		1.5%
Objectives (AO)AO2: Explain the effect of different neurosurgical positioning in anesthetic managementMCQAO3: Manage raised ICPMCQ/OralAO4: Provide anesthesia care for neurosurgeriesMCQ/OralAO5: Manage intraoperative complications during neurosurgeriesMCQ/OralAO6: Provide anesthesia for head injury patientsMCQ/OralTask 1.4.7. Manage anesthesia for emergency thoracic surgeries0.5%AssessmentAO1: Select the appropriate anesthetic drugs and thoracic surgeryMCQ/OralObjectives (AO)techniques for patients undergoing emergency thoracic surgeryMCQ/OralAO2: Differentiate common intraoperative complications during thoracic surgeryMCQ/OralAO3: Recognize the effects of positioning and anesthesia on respiratory mechanicsMCQ/OralAO4: Perform lung isolation using DLT & classic ETTOSCEAO5: Manage anesthesia for one lung ventilationMCQ/OralAO6: Manage intraoperative complications during thoracic surgeryMCQ/OralAO4: Extubate after thoracic emergency surgeriesMCQ/OralAO4: Extubate after thoracic emergency surgeri	Assessment	AO1: Administer fluids for neurosurgeries	MCQ	
(AO) positioning in anesthetic management MCQ/Oral AO3: Manage raised ICP MCQ/Oral AO4: Provide anesthesia care for neurosurgeries MCQ/Oral AO5: Manage intraoperative complications during neurosurgeries MCQ/Oral AO6: Provide anesthesia for head injury patients MCQ/Oral Task 1.4.7. Manage anesthesia for emergency thoracic surgeries 0.5% Assessment AO1: Select the appropriate anesthetic drugs and MCQ/Oral Objectives techniques for patients undergoing emergency MCQ/Oral (AO) thoracic surgery MCQ/Oral AO2: Differentiate common intraoperative complications during thoracic surgery MCQ/Oral AO3: Recognize the effects of positioning and anesthesia on respiratory mechanics MCQ/Oral AO4: Perform lung isolation using DLT & classic ETT OSCE AO5: Manage anesthesia for one lung ventilation MCQ/Oral AO6: Manage intraoperative complications during thoracic surgery MCQ/Oral AO4: Extubate after thoracic emergency surgeries MCQ/Oral/	Objectives	AO2: Explain the effect of different neurosurgical	MCQ	
AO3: Manage raised ICP MCQ/Oral AO4: Provide anesthesia care for neurosurgeries MCQ/Oral AO5: Manage intraoperative complications during neurosurgeries MCQ/Oral AO6: Provide anesthesia for head injury patients MCQ/Oral Task 1.4.7. Manage anesthesia for emergency thoracic surgeries 0.5% Assessment AO1: Select the appropriate anesthetic drugs and techniques for patients undergoing emergency thoracic surgery MCQ/Oral AO2: Differentiate common intraoperative complications during thoracic surgery MCQ/Oral AO3: Recognize the effects of positioning and anesthesia on respiratory mechanics MCQ/Oral AO4: Perform lung isolation using DLT & classic ETT OSCE AO5: Manage anesthesia for maxillofacial and ENT surgeries MCQ/Oral AO4: Extubate after thoracic emergency surgeries MCQ/Oral Objectives AO1: Provide intra-operative anesthetic care for maxillofacial and ENT surgery MCQ	(AO)	positioning in anesthetic management		
AO4: Provide anesthesia care for neurosurgeriesMCQ/OralAO5: Manage intraoperative complications during neurosurgeriesMCQ/OralAO6: Provide anesthesia for head injury patients0.5%Task 1.4.7. Manage anesthesia for emergency thoracic surgeries0.5%AssessmentAO1: Select the appropriate anesthetic drugs and techniques for patients undergoing emergency thoracic surgeryMCQ/OralObjectivesAO2: Differentiate common intraoperative complications during thoracic surgeryMCQ/OralAO3: Recognize the effects of positioning and anesthesia on respiratory mechanicsMCQ/OralAO4: Perform lung isolation using DLT & classic ETTOSCEAO5: Manage intraoperative complications during thoracic surgeryMCQ/OralAO4: Extubate after thoracic emergency surgeriesMCQ/OralAO4: Extubate after thoracic emergency surgeriesMCQ/OralAO4: Provide intra-operative anesthetic care for maxillofacial and ENT surgeriesMCQ		AO3: Manage raised ICP	MCQ/Oral	
AO5: Manage intraoperative complications during neurosurgeries MCQ/Oral AO6: Provide anesthesia for head injury patients 0.5% Task 1.4.7. Manage anesthesia for emergency thoracic surgeries 0.5% Assessment AO1: Select the appropriate anesthetic drugs and techniques for patients undergoing emergency (AO) MCQ/Oral AO2: Differentiate common intraoperative complications during thoracic surgery MCQ/Oral AO3: Recognize the effects of positioning and anesthesia on respiratory mechanics MCQ/Oral AO4: Perform lung isolation using DLT & classic ETT OSCE AO5: Manage intraoperative complications during thoracic surgery MCQ/Oral AO4: Perform lung isolation using DLT & classic ETT OSCE AO4: Perform lung isolation using DLT & classic ETT OSCE AO4: Extubate after thoracic emergency surgeries MCQ/Oral AO5: Manage anesthesia for maxillofacial and ENT surgeries MCQ/Oral AO4: Extubate after thoracic emergency surgeries MCQ/Oral AO4: Extubate after thoracic emergency surgeries MCQ/Oral Objectives <td></td> <td>AO4: Provide anesthesia care for neurosurgeries</td> <td>MCQ/Oral</td> <td></td>		AO4: Provide anesthesia care for neurosurgeries	MCQ/Oral	
AO6: Provide anesthesia for head injury patients 0.5% Task 1.4.7. Manage anesthesia for emergency thoracic surgeries 0.5% Assessment AO1: Select the appropriate anesthetic drugs and techniques for patients undergoing emergency (AO) MCQ/Oral AO2: Differentiate common intraoperative complications during thoracic surgery MCQ/Oral AO3: Recognize the effects of positioning and anesthesia on respiratory mechanics MCQ/Oral AO4: Perform lung isolation using DLT & classic ETT OSCE AO5: Manage anesthesia for one lung ventilation MCQ/Oral AO6: Manage intraoperative complications during thoracic surgery MCQ/Oral AO4: Extubate after thoracic emergency surgeries MCQ/Oral Task 1.4.8. Marage anesthesia for maxillofacial and ENT surgeries MCQ/Oral/ 0SCE Task 1.4.8. Marage anesthesia for maxillofacial and ENT surgeries MCQ Objectives AO1: Provide intra-operative anesthetic care for maxillofacial and ENT surgery MCQ		AO5: Manage intraoperative complications during	MCQ/Oral	
AO6: Provide anestnesia for nead injury patients 0.5% Task 1.4.7. Manage anesthesia for emergency thoracic surgeries 0.5% Assessment AO1: Select the appropriate anesthetic drugs and techniques for patients undergoing emergency (AO) MCQ/Oral AO2: Differentiate common intraoperative complications during thoracic surgery MCQ/Oral AO3: Recognize the effects of positioning and anesthesia on respiratory mechanics MCQ/Oral AO4: Perform lung isolation using DLT & classic ETT OSCE AO5: Manage anesthesia for one lung ventilation MCQ/Oral AO6: Manage intraoperative complications during thoracic surgery MCQ/Oral AO4: Extubate after thoracic emergency surgeries MCQ/Oral/ OSCE 1.0% Assessment AO1: Provide intra-operative anesthetic care for MCQ Objectives maxillofacial and ENT surgery MCQ				
Task 1.4.7. Manage anestnesia for emergency thoracic surgeries 0.5% Assessment AO1: Select the appropriate anesthetic drugs and techniques for patients undergoing emergency (AO) MCQ/Oral AO2: Differentiate common intraoperative complications during thoracic surgery MCQ/Oral AO3: Recognize the effects of positioning and anesthesia on respiratory mechanics MCQ/Oral AO4: Perform lung isolation using DLT & classic ETT OSCE AO5: Manage anesthesia for one lung ventilation MCQ/Oral AO6: Manage intraoperative complications during thoracic surgery MCQ/Oral AO4: Extubate after thoracic emergency surgeries MCQ/Oral/ OSCE Task 1.4.8. Manage anesthesia for maxillofacial and ENT surgeries 1.0% Assessment AO1: Provide intra-operative anesthetic care for maxillofacial and ENT surgery MCQ	T 1 4 4 7 14	AO6: Provide anesthesia for head injury patients		0.50/
Assessment AO1: Select the appropriate anesthetic drugs and techniques for patients undergoing emergency (AO) MCQ/Oral AO2: Differentiate common intraoperative complications during thoracic surgery MCQ/Oral AO3: Recognize the effects of positioning and anesthesia on respiratory mechanics MCQ/Oral AO4: Perform lung isolation using DLT & classic ETT OSCE AO5: Manage anesthesia for one lung ventilation MCQ/Oral AO6: Manage intraoperative complications during thoracic surgery MCQ/Oral AO4: Extubate after thoracic emergency surgeries MCQ/Oral Task 1.4.8. Manage anesthesia for maxillofacial and ENT surgeries MCQ/Oral/ OSCE Task 1.4.8. Manage anesthesia for maxillofacial and ENT surgeries 1.0%	1 ask 1.4.7. Ma	anage anesthesia for emergency thoracic surgeries		0.5%
Objectives techniques for patients undergoing emergency (AO) thoracic surgery AO2: Differentiate common intraoperative MCQ/Oral complications during thoracic surgery AO3: Recognize the effects of positioning and AO4: Perform lung isolation using DLT & classic ETT OSCE AO5: Manage anesthesia for one lung ventilation MCQ/Oral AO6: Manage intraoperative complications during thoracic surgery MCQ/Oral AO4: Extubate after thoracic emergency surgeries MCQ/Oral AO4: Extubate after thoracic emergency surgeries MCQ/Oral AO4: Extubate after thoracic emergency surgeries MCQ/Oral AO4: Provide intra-operative anesthetic care for MCQ Objectives Maxillofacial and ENT surgery MCQ	Assessment	AU1: Select the appropriate anestnetic drugs and	MCQ/Oral	
(AO) thoracic surgery AO2: Differentiate common intraoperative complications during thoracic surgery MCQ/Oral AO3: Recognize the effects of positioning and anesthesia on respiratory mechanics MCQ/Oral AO4: Perform lung isolation using DLT & classic ETT OSCE AO5: Manage anesthesia for one lung ventilation MCQ/Oral AO6: Manage intraoperative complications during thoracic surgery MCQ/Oral AO4: Extubate after thoracic emergency surgeries MCQ/Oral/ OSCE Task 1.4.8. Manage anesthesia for maxillofacial and ENT surgeries MCQ AO1: Provide intra-operative anesthetic care for maxillofacial and ENT surgery MCQ	Objectives	techniques for patients undergoing emergency		
AO2: Differentiate common intraoperative MCQ/Oral complications during thoracic surgery MCQ/Oral AO3: Recognize the effects of positioning and anesthesia on respiratory mechanics MCQ/Oral AO4: Perform lung isolation using DLT & classic ETT OSCE AO5: Manage anesthesia for one lung ventilation MCQ/Oral AO6: Manage intraoperative complications during thoracic surgery MCQ/Oral AO4: Extubate after thoracic emergency surgeries MCQ/Oral/ OSCE Task 1.4.8. Manage anesthesia for maxillofacial and ENT surgeries 1.0% Assessment AO1: Provide intra-operative anesthetic care for maxillofacial and ENT surgery MCQ	(AO)			
Complications during thoracic surgery AO3: Recognize the effects of positioning and anesthesia on respiratory mechanics MCQ/Oral AO4: Perform lung isolation using DLT & classic ETT OSCE AO5: Manage anesthesia for one lung ventilation MCQ/Oral AO6: Manage intraoperative complications during thoracic surgery MCQ/Oral AO4: Extubate after thoracic emergency surgeries MCQ/Oral/OSCE Task 1.4.8. Manage anesthesia for maxillofacial and ENT surgeries 1.0% Assessment AO1: Provide intra-operative anesthetic care for maxillofacial and ENT surgery		AO2: Differentiate common intraoperative	MCQ/Oral	
AO3: Recognize the effects of positioning and anesthesia on respiratory mechanics MCQ/Oral AO4: Perform lung isolation using DLT & classic ETT OSCE AO5: Manage anesthesia for one lung ventilation MCQ/Oral AO6: Manage intraoperative complications during thoracic surgery MCQ/Oral AO4: Extubate after thoracic emergency surgeries MCQ/Oral/ OSCE Task 1.4.8. Manage anesthesia for maxillofacial and ENT surgeries 1.0% Assessment Objectives AO1: Provide intra-operative anesthetic care for maxillofacial and ENT surgery MCQ		complications during thoracic surgery		
anesthesia on respiratory mechanics anesthesia on respiratory mechanics AO4: Perform lung isolation using DLT & classic ETT OSCE AO5: Manage anesthesia for one lung ventilation MCQ/Oral AO6: Manage intraoperative complications during thoracic surgery MCQ/Oral AO4: Extubate after thoracic emergency surgeries MCQ/Oral/OSCE Task 1.4.8. Manage anesthesia for maxillofacial and ENT surgeries 1.0% Assessment Objectives AO1: Provide intra-operative anesthetic care for maxillofacial and ENT surgery		AO3: Recognize the effects of positioning and	MCQ/Oral	
AO4: Perform lung isolation using DLT & classic ETT OSCE AO5: Manage anesthesia for one lung ventilation MCQ/Oral AO6: Manage intraoperative complications during thoracic surgery MCQ/Oral AO4: Extubate after thoracic emergency surgeries MCQ/Oral/OSCE Task 1.4.8. Manage anesthesia for maxillofacial and ENT surgeries 1.0% Assessment AO1: Provide intra-operative anesthetic care for MCQ Objectives maxillofacial and ENT surgery MCQ		anesthesia on respiratory mechanics		
AO5: Manage anesthesia for one lung ventilation MCQ/Oral AO6: Manage intraoperative complications during thoracic surgery MCQ/Oral AO4: Extubate after thoracic emergency surgeries MCQ/Oral/ 0SCE Task 1.4.8. Manage anesthesia for maxillofacial and ENT surgeries 1.0% ASsessment Objectives AO1: Provide intra-operative anesthetic care for maxillofacial and ENT surgery MCQ		AO4: Perform lung isolation using DLT & classic ETT	OSCE	
AO6: Manage intraoperative complications during thoracic surgery MCQ/Oral AO4: Extubate after thoracic emergency surgeries MCQ/Oral/OSCE Task 1.4.8. Manage anesthesia for maxillofacial and ENT surgeries 1.0% Assessment Objectives AO1: Provide intra-operative anesthetic care for maxillofacial and ENT surgery		AO5: Manage anesthesia for one lung ventilation	MCQ/Oral	
AO4: Extubate after thoracic emergency surgeries MCQ/Oral/ OSCE Task 1.4.8. Manage anesthesia for maxillofacial and ENT surgeries 1.0% Assessment AO1: Provide intra-operative anesthetic care for MCQ Objectives maxillofacial and ENT surgery 1.0%		AO6: Manage intraoperative complications during thoracic surgery	MCQ/Oral	
Task 1.4.8. Market anesthesia for maxillofacial and ENT surgeriesOSCEAssessmentAO1: Provide intra-operative anesthetic care for maxillofacial and ENT surgeryMCQObjectivesmaxillofacial and ENT surgeryIntra-operative anesthetic care for		AO4: Extubate after thoracic emergency surgeries	MCQ/Oral/	
Task 1.4.8. Manage anesthesia for maxillofacial and ENT surgeries1.0%AssessmentAO1: Provide intra-operative anesthetic care forMCQObjectivesmaxillofacial and ENT surgery			OSCE	
AssessmentAO1: Provide intra-operative anesthetic care forMCQObjectivesmaxillofacial and ENT surgeryImage: Comparison of the surgery	Task 1.4.8. Ma	anage anesthesia for maxillofacial and ENT surgeries		1.0%
Objectives maxillofacial and ENT surgery	Assessment	AO1: Provide intra-operative anesthetic care for	MCQ	
	Objectives	maxillofacial and ENT surgery		

	Competencies, tasks, and Objectives	Format + Methods	Emphasis
(AO)	AO2: Manage challenges specific to maxillofacial and ENT surgeries	MCQ/Oral	
	AO3: Manage complications specific to maxillofacial and ENT surgeries	MCQ/Oral	
Task 1.4.9. Ma	anage anesthesia for ophthalmic surgeries		0.5%
Assessment Objectives	AO1: Analyze the interaction between ophthalmic medications and anesthetic agents and adjuvants	MCQ/Oral	
(AO)	AO2: Manage raised IOP	MCQ/Oral	
	AO3: Provide intra-operative anesthesia care for ophthalmic surgery	MCQ	
	AO4: Manage intraoperative anesthesia of patients undergoing emergency ophthalmic surgery	MCQ/Oral	
	AO5: Manage intraoperative complications of patients undergoing ophthalmic surgery	MCQ/Oral	
Task 1.4.10. N	lanage anesthesia for day-case surgeries and remote an	nesthesia	0.5%
Assessment	AO1: Justify day-case patient selection protocols	Oral	
Objectives (AO)	AO2: Select appropriate anesthetic drugs and techniques for day-case patient management	MCQ/Oral	
	AO3: Outline discharge criteria for day-case surgical patients	MCQ/Oral	
	AO4: Manage peculiar challenges and safety risks associated with remote anesthesia	MCQ/Oral	
	AO5: Manage complications during remote anesthesia	MCQ/Oral	
Task 1.4.11. N	lanage regional anesthesia		3.5%
Assessment Objectives	AO1: Identify relevant anatomical landmarks for regional anesthesia	MCQ/Oral	
(AO)	AO2: Decide patient fitness for regional anesthesia (Indication/ contraindication)	MCQ/Oral	
	AO3: Prepare relevant equipment and material for regional nerve blocks	OSCE	
	AO4: Prepare the required volume, dosage, and concentrations of local anesthetics and adjuvants for regional anesthesia	OSCE	
	AO5: Perform spinal anesthesia technique	OSCE	
	AO6: Perform peripheral nerve blocks other than spinal anesthesia	OSCE	
	AO7: Examine the effectiveness of block	MCQ/OSCE	
	AO8: Manage intraoperative complications during regional anesthesia	MCQ/Oral	
Task 1.4.12. N	Anage anesthesia for patients with common co-existing	disorders	2.5%

	Competencies, tasks, and Objectives	Format + Methods	Emphasis	
Assessment	AO1: Justify the impact of comorbidities on	MCQ/Oral		
Objectives	anesthesia management and patient outcome			
(AO)	AO2: Diagnose patients with common co-morbid	MCQ/Oral		
	conditions before anesthesia and surgery			
	AO3: Optimize patients with common co-morbid	MCQ/Oral		
	conditions before anesthesia and surgery			
	AO4: Select appropriate drugs and techniques for	MCQ/Oral		
	patients with common co-morbidity			
	AO5: Manage intra-operative anesthesia care	MCQ/Oral		
	technique for patients with a common co-morbid			
	condition			
	AO6: Manage common complications of patients with	MCQ/Oral		
	common co-morbid conditions during anesthesia and			
	surgery			
Competency	5: Provide postoperative anesthetic care		6%	
Task 1.5.1. Cł	neck and prepare the post-anesthesia care units and sta	ndards (PACU)	2%	
Assessment	AO1: Prepare Post Anesthesia care unit for surgical	MCQ/Oral Exam		
Objectives	patients			
(AO)	AO2: Recognize components of postoperative care	MCQ/Oral		
	AO3: Develop a postoperative management plan	MCQ		
	AO4: Critique the design and staffing of the PACU	MCQ		
	AO5: Decide patient admission and discharge to and	MCQ/Oral		
	from PACU			
Task 1.5.2. Ha	andover patient to respective unit postoperatively		2%	
Assessment	AO1: Demonstrate appropriate transfer of care and	OSCE		
Objectives	responsibility during the handover of patients			
(AO)	AO2: Assess the patient's status on arrival at PACU	MCQ/Oral		
	AO3: Provide postoperative care during patient	MCQ/Oral		
	transportation from OR			
Task 1.5.3. Ma	anage patients at PACU		2%	
Assessment	AO1: Diagnose common postoperative complications	Oral		
Objectives	of the surgical patient admitted to PACU			
(AO)	AO2: Monitor patient condition using different risk	MCQ/SOE		
	scoring and stratification methods			
	AO3: Manage common postoperative complications	MCQ/SOE		
	AO4: Recognize the need for consultation	MCQ/SOE		
Competency 6: Manage pain for different patient groups				
Task 1.6.1. As	ssess acute and chronic pain		1.5%	
	AO1: Take history for patients with pain.	MCQ/SOE		
	AO2: Perform physical examination for patients with pain.	MCQ/OSCE		

	Competencies, tasks, and Objectives	Format + Methods	Emphasis
	AO3: Rate pain using different pain rating scales	MSQ/SOE	
	AO4: Recognize the impact of pain on different body systems	MSQ/SOE	
Task 1.6.2. Ma	anage acute pain	•	1.5%
Assessment	AO1: Recognize pain pathway	MCQ	
Objectives	AO2: Manage pain using WHO analgesia ladder	MCQ/SOE	
(AO)	AO3: Consult with other team members regarding	MCQ/SOE	
	pain management		
	AO4: Demonstrate empathy for patients with pain	OSCE/SOE/ MCQ	
	AO5: Measure effectiveness of pain management regularly	MCQ/SOE	
	AO6: Recognize complications related to pain management modalities and drugs	MCQ/SOE	
	AO7: Manage complications related to pain management modalities and drugs	SOE/MCQ	
Task 1.6.3. Pa	articipate in the management of chronic and cancer pain		0.5%
Assessment Objectives	AO1: Recognize the role of psychological, social, rehabilitation, and other support services	MCQ/SOE	
(AO)	AO2: Identify common types of chronic pain syndromes	MCQ/SOE	
Competency	7: Engage in pre-hospital, emergency, and critical ca	are services	3.5%
Task 1.7.1. Er during out-of-h	ngage in the initial assessment and stabilization of critica nospital care and transport	lly ill patients	1.0%
Assessment	AO1: Recognize critically ill patients	MCQ/SOE/OSCE	
Objectives (AO)	AO2: Recognize risks associated with patient transfer (physical, psychological, and organizational)	MCQ/SOE	
	AO3: Monitor the condition of patients during transportation	OSCE	
	AO4: Apply different stabilization techniques during transport of a critically ill patient	MCQ/SOE	
	AO5: Apply special precautions during the transfer and intubation of trauma patients	OSCE/SOE	
	AO6: Recognize problems encountered during retrieval of victims from the scene	MCQ/SOE	
Task 1.7.2. As	ssess emergency and critically ill patients who need imm	ediate attention	0.5%
Assessment Objectives	AO1: Perform triage using the national Early Warning score	MCQ/SOE	
(AO)	AO2: Recognize the goals of initial assessment and monitoring of critically ill patients	MCQ	
	AO3: Identify danger (warning) signs in critically ill	MCQ	

	Competencies, tasks, and Objectives	Format + Methods	Emphasis
	patients		
	AO4: Identify indications for endotracheal intubation of critically ill patients	MCQ/SOE	
Task 1.7.4. Er	ngage in the management of emergency patients who ne	eed immediate	1.0%
attention at the	e emergency department		
Assessment	AO1: Apply principles of the primary survey	SOE/OSCE	
Objectives	AO2: Apply principles of a secondary survey during	SOE/OSCE	
(AO)	patient assessments		
	AO3: Recognize special considerations during the	SOE/OSCE	
	management of pediatric and obstetric critically ill		
	patients		
	AO4: Recognize the need for a multi-disciplinary	SOE	
	team during the management of emergency and		
	critically ill patients		
Task 1.7.5. Er	ngage in the management of critically ill patients who are	admitted to the	1.0%
Assessment	AO1: Identify common causes of respiratory failure	MCQ	
Objectives	AO1: Recognize patients' admission and discharge	MCQ	
(AO)	criteria to & from ICU	in o Q	
(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	AQ2: Recognize indication and principles of	SOE/OSCE	
	mechanical ventilation in ICU	002,0002	
	AO3 ⁻ Manage electrolyte and acid-base disturbance	MCQ/SOF	
	AO3 ⁻ Manage immediate life-threatening conditions	SOF/OSCE	
	(ABCDE) according to priority	001,0001	
	AO4: Apply different settings of ventilation according	SOF/OSCE	
	to the indication	002,0002	
	AO5: Demonstrate compassion to patient and family	SOE/OSCE	
	while caring for critically ill patients		
Competency	8: Perform cardiopulmonary resuscitation (CPR)		5.5%
Task 1.8.1. Re	ecognize critically ill patients early before cardiac arrest	happens	1.5%
Assessment	AO1: Prepare the setting to manage critically ill	OSCE/SOE	
Objectives	patients		
(AO)	AO2: Assess critically ill patients regularly using	OSCE/SOE	
	ABCDE		
	AO3: Differentiate patients who need urgent	MCQ/SOE	
	responses		
	AO4: Recognize reversible causes of cardiac arrest	MCQ/SOE	
Task 1.8.2. Pe	erform effective Basic Life Support	<u> </u>	1.5%
Assessment	AO1: Recognize the importance of high-quality CPR	MCQ	
Objectives	and its impact on survival		
(AO)	AO2: Manage Airway Obstruction	OSCE	

	Competencies, tasks, and Objectives	Format + Methods	Emphasis	
	AO3: Provide effective ventilation by using a barrier	OSCE		
	device			
	AO4: Demonstrate effective chest compression	OSCE		
	AO5: Perform defibrillation using AED	OSCE		
Task 1.8.3. Perform effective Advanced Life Support				
Assessment	AO1: Apply advanced airway management modalities	OSCE		
Objectives	during life-threatening airway obstructions			
(AO)	AO2: Mange patients with respiratory arrest using	OSCE		
	artificial ventilation			
	AO3: Identify cardiac arrest rhythms	MCQ/SOE		
	AO4: Manage cardiac arrest using pharmacological	OSCE		
	and electrical interventions			
	AO5: Perform ACLS for special population (e.g			
	pregnant)			
Task 1.8.4. Pr	ovide post-resuscitation care for patients who achieve th	e return of	1.0%	
spontaneous of	circulation (ROSC)			
Assessment	AO1: Recognize the role of the multi-disciplinary	MCQ/SOE		
Objectives	team during post-resuscitation care			
(AO)	AO2: Provide essential post-resuscitation care	MCQ/SOE		
	AO1: Manage complications of cardiac arrest	MCQ/SOE		
	AO3: Maintain appropriate documentation throughout	OSCE		
	the peri-arrest period			

Domain 2: Professionalism [8.0%]

r 🖥

	Format + Methods	Emphasis				
Competency 1: Uphold the anesthesia practice standard and ethics and be						
accountable to the public and the profession						
Task 2.1.1. Apply ethical and legal principles to anesthesia practice						
Assessment	AO1: Justify the applicability of ethical principles in	MCQ				
Objectives	anesthesia practice	/OSCE/SOE				
(AO)	AO2: Solve ethical dilemmas and uncertainties					
	AO3: Demonstrate ethical anesthesia practice during	OSCE				
	interactions with patients and their families/ attendants and					
	colleagues.					
	AO4: Implement strategies to resolve the ethical issue	MCQ/SOE				
	AO5: Recognize the role of law in anesthesia practice	MCQ/SOE				
	AO6: Support the rights, interests, and needs of patients					
	and their family					
Task 2.1.2. Pr	actice within the standard and scope of anesthesia practice		2.0%			
Assessment	AO1: Apply codes of ethics in the practice of anesthesia	MCQ/SOE				
Objectives	es per the national guideline					
(AO)	AO2: Practice within the defined scope of professional OSCE/SOE					
	requirements					
	AO3: Recognize the consequence of breaching the	OSCE/SOE				
	defined scope of practice					
	AO4: Comply with the standard of practice	OSCE/SOE				
Task 2.1.4. Co	ommunicate effectively with patient, patient family & multidisci	plinary team	1.5%			
Assessment	AO1: Communicate acute events and complications to the	SOE/ MCQ				
Objectives	appropriate anesthesia and surgical teams					
(AO)	AO2: Recognize the communication model and process	MCQ/SOE				
	AO3: Implement safe, effective, and consistent	SOE/OSCE				
	communication with a multidisciplinary team					
	AO4: Implement safe, effective, and consistent	SOE/MCQ				
	communication with a patient					
Task 2.1.5. Produce and maintain complete and accurate anesthesia documentation						
Assessment	AO1: Recognize the need for appropriate anesthesia	MCQ/SOE				
Objectives	documentation					
(AO)	AO2: Maintain proper perioperative anesthesia documentation	OSCE				

	Format + Methods	Emphasis				
Competency 1: Demonstrate commitment to excellence in anesthesia practice through						
the application of evidence to practice and research activities						
Task 3.1.1. Conduct research relevant to peri-operative medicine and critical care						
Assessment	AO1: Justify the application of research in anesthesia	Oral				
Objectives	practice					
(AO)	AO2: Distinguish the commonly used research designs	MCQ/Oral				
	AO3: Determine sample & sampling methods	MCQ/Oral				
	AO4: Design research objectives	MCQ/Oral				
	AO5: Justify Ethical principles in research	MCQ/Oral				
Task 3.1.2. Ap	pply the principles of evidence-based practice	·	0.5%			
Assessment	AO1: Recognize the need for evidence-based practice	MCQ/Oral				
Objectives (AO)	AO2: Recommend credible online resources for	MCQ/Oral				
	anesthesia practice					
	AO3: Compare different sources of information	Oral				
	AO4: Appraise published articles critically	Oral				
	AO5: Utilize critically appraised literature	Oral				
Task 3.1.3. Co	onduct a clinical audit and need assessment		1.0%			
Assessment	AO1: Justify the relevance of clinical audit in anesthesia	MCQ/Oral				
Objectives	practice					
(AO)	AO2: Outline audit cycle	MCQ/Oral				
	AO3: Set performance standards	MCQ/Oral				
	AO4: Choose appropriate audit methodologies	MCQ/Oral				
	AO5: Outline dissemination strategies of clinical audit	MCQ/Oral				
	findings					

Domain 3: Education, research and evidence-based practice [2.5%]

r 🖥

ış

	Format + Methods	Emphasis				
Competency 1: Manage anesthesia service in a health facility						
Task 4.1.1. Plan anesthesia service activities						
Assessment	AO1: Assess workplace, health, and safety for patients	SOE				
Objectives	and staff (eg: AFAT)					
(AO)	AO2: Develop anesthesia service work plan	OSCE/SOE				
	AO3: Prioritize short- and long-term plans for the service in	SOE				
	consultation with multidisciplinary team members					
Task 4.1.2. Imp	blement anesthesia service activities	•	0.5%			
Assessment	AO1: Utilize appropriate technology and standardized	OSCE				
Objectives	practices that support safe practice					
(AO)	AO2: Conduct appropriate and corrective measures to	OSCE				
	solve problems encountered					
	AO3: Lead anesthesia team	MCQ/SOE				
	AO4: Manage conflicts with patients and multidisciplinary	MCQ/SOE				
	team					
Task 4.1.3. Mo	nitor the overall anesthesia service plan in a facility	•	0.5%			
Assessment	AO1: Monitor resource utilization as per the plan and	MCQ				
Objectives	organizational policy					
(AO)	AO2: Examine the quality of service using key	SOE				
	performance indicators					
Task 4.1.4. Re	port anesthesia service deliveries (including risks and incidents)		1.0%			
Assessment	AO1: Develop anesthesia service reports	SOE/MCQ				
Objectives	AO2: Submit reports regularly	SOE				
(AO)	AO3: Utilize report findings to improve anesthesia practice	SOE/MCQ				
Task 4.1.5. Ad	apt and implement a quality improvement and assurance framew	ork for quality	0.5%			
anesthesia service delivery						
Assessment	AO1: Identify anesthesia service standards	MCQ				
Objectives	AO2: Construct strategies for the delivery of high-quality	MCQ				
(AO)) anesthesia service.					
	AO3: Conduct regular discussions with surgical team	OSCE				
	members to incorporate necessary changes into strategies					
	for continuous improvement.					

	Format + Methods	Emphasis				
Competency 1: Asses and diagnose community health problems						
Task 5.1.1. Asses and diagnose community health problems						
Assessment	AO1: Assess community health problems	MCQ				
Objectives	AO2: Prioritize community health problems in relevance to	MCQ				
(AO)	anesthesia					
	AO3: Recognize national priority diseases and control	MCQ/SOE				
	program					
	AO4: Conduct community needs assessment to provide	MCQ/SOE				
surgical, anesthesia, and critical care						
Competency 2: Plan and implement health promotion and disease prevention						
interventions						
Task 5.2.1. Create community awareness on topics relevant to anesthesia practice						
(including community education)						
Assessment	AO1: Provide health education in various contexts/settings	MCQ/SOE				
Objectives	A02: Create awareness of the anesthesia profession	SOE				
(AO)	AO3: Promote healthy lifestyles (diet, exercise) and	MCQ/SOE				
	behaviors for risk reduction					
Task 5.2.2. Implement infection prevention and control protocols						
Assessment	AO1: Apply infection prevention and control strategies	MCQ/SOE				
Objectives	AO2: Create awareness of infection prevention and control	MCQ/SOE				
(AO)	(IPC) measures					

Domain 5: Health promotion and disease prevention [1.5%]

r 🕹

Integrated sample OSCE blueprint

Area	# of	Assess, optimize, and prepare patients [29%]		Prepare & utilize machines and equipment [14%]		C4: Manage safe anesthesia [57%]		Total	
Area	stations	Hx taking & consent (12%)	Examination (6%)	Optimization/ prep (10%)	Machine (8%)	Equipment + drug (6%)	CDMS (8%)	Procedure (49%)	emphasis
Obstetrics & gynecologic anesthesia	3	Hx & consent (4%)	AW exam (3%)	-	-	-	-	Newborn resus (7%)	14%
Pediatric & neonatal anesthesia	4	Hx & assent (4%)	-	-	Mapleson A-E identify (4%)	Adrenaline prep (3%)	-	ETTI (7%)	18%
Geriatric anesthesia	2	-	-	-		ECG interp. (3%)	Mx plan (4%)	-	7%
General & urologic surgery anesthesia	2	-	-	-	Machine check (4%)		-	LMA (7%)	11%
Trauma & orthopedic anesthesia	2	-	-	ATLS (5%)	-	-	-	PNB (7%)	12%
Neurosurgery anesthesia	1	-	-	-	-	-	-	ETTI (7%)	7%
Thoracic emergency anesthesia	2		Chest (3%)	-	-	-	-	DLT (7%)	10%
Maxillofacial and ENT anesthesia	2	Pain Hx (4%)		-	-	-	-	-	4%
Ophthalmic anesthesia	1	-	-	CPR (6%)	-	-	-	-	6%
Regional anesthesia	1	-	-	-	-	-	-	SA (7%)	7%
Co-existing disorders	1	-	-	-	-	-	Mx plan (4%)		4%
# of stations	20	3	2	2	2	2	2	7	100%