

Program Anesthesia Technician

Course Specification of Special Anesthesia

Course No. (08 01 830)

2024

II. Course Description:

The special anesthesia course is designed for healthcare professionals seeking advanced knowledge and skills in the field of anesthesia. This course typically covers a range of topics, including but not limited to regional anesthesia techniques, sedation protocols, pain management strategies, and the latest advancements in anesthetic agents

IV. Course Contents:

A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours	Learning Outcomes (CLOs)
1	Advanced Pharmacology	Advanced Pharmacology: .1 - In-depth study of anesthetic agents, adjunct medications, and their pharmacokinetics and pharmacodynamics. - Understanding new and emerging agents. Regional Anesthesia .2 Techniques: - Detailed instruction on various regional anesthesia methods, including nerve blocks (e.g., spinal, epidural, peripheral nerve blocks). - Ultrasound-guided techniques.	1	2	a1, d2
2	Anesthesia for Special Populations:	Anesthesia for Special Populations: Considerations for pediatric, geriatric, obstetric, and patients with comorbidities.	1	2	a1, b1



		Management of specific conditions such as obesity, cardiovascular diseases, and respiratory issues			
3	Pain Management:	Pain Management: - Approaches to acute and chronic pain management. - Multimodal analgesia and the role of regional anesthesia. Anesthesia Equipment and Monitoring: - Familiarization with advanced monitoring technologies (e.g., TOF, EEG, invasive hemodynamic monitoring). - Equipment troubleshooting and maintenance.	1	2	a1, b1, c1, d1
4	Anesthetic Management of Surgical Specialties:	Anesthetic Management of Surgical Specialties: - Strategies for anesthesia in specific surgeries such as orthopedic, cardiac, neurosurgery, and obstetrics. - Considerations for patient positioning and specific anesthetic requirements.	3	6	a1, c1, d1
5	Crisis	Crisis Management and	1	2	a1, b1, c1,



	Management and Anesthesia Complications:	Anesthesia Complications: Simulation training for managing anesthesia emergencies (e.g., malignant hyperthermia, airway obstruction). Recognizing and addressing adverse reactions to anesthetics. Research and Evidence-Based Practice: Understanding current research trends in anesthesia. Integration of evidence-based practices into clinical decision-making.			d1
6		Exam	1	2	
7	Research and Evidence-Based Practice	Research and Evidence-Based Practice: Understanding current research trends in anesthesia. Integration of evidence-based practices into clinical decision-making.			
8	Ethics and Professionalism in Anesthesia	Ethics and Professionalism in Anesthesia: Discussing ethical dilemmas in	3	6	a2, b2, c2, d2

		anesthesia. Professional conduct ○ and communication strategies in clinical practice. Anesthesia in Resource- Limited Settings: Providing anesthesia ○ care in low-resource environments. Adapting techniques ○ and medications for limited availability.			
9	Post-Anesthesia Care	Post-Anesthesia Care: Transitioning patients ○ to post-anesthesia care units (PACU). Monitoring for ○ complications and managing recovery.	2	4	a2, c2, d2
8	Quality Improvement and Patient Safety:	Quality Improvement and Patient Safety: Best practices in ○ anesthesia to enhance patient safety. Quality assurance and ○ improvement initiatives in anesthesia services.	3	6	a2, c2, d2.C3
	Final term exam	Final term exam	1	2	a2, b2, c2, d2
Number of Weeks /and Units Per Semester			16	32	



V. Teaching Strategies of the Course:

- Interactive lecture
- Seminars and student presentations
- Brain storming
- Role-play and simulation
- Small group discussion
- Learning tasks and activities
- Problems solving
- Case study analysis

VI. Assessment Methods of the Course:

- Assignments
- Quizzes
- Mid-term exam
- Final term exam