

The specialist educational programme for nurse anaesthetists
by 24 months of theoretical and clinical education.

Theoretical part	Topics covered	Hours
Introduction to nurse anaesthesia	Basic anaesthesia technique, anaesthesia drugs, physiology, airway management, technical equipment, monitoring	48
Scientific theoretical module	Anaesthetic considerations for selected patient groups, anaesthesia and systemic disease, patho-physiology, clinical pharmacology, special anaesthesia considerations	160
Quality development and cross-professional coordination and cooperation	Theory of science, research methods, sociology, psychology, communication, quality assurance, ethics and morals, stress and coping	65
Theoretical examination	Advanced nurse anaesthesia	Passed

	Hours
Simulation based training	Combination of theory and situations in practice with a view to strengthening the participants' ability to reflect and assess and their preparedness to act during relevant and complex anaesthesiological courses 48

Clinical part	Clinical experience	Weeks
Clinical training	Rotation in anaesthetic wards, comprising a minimum of three specialist fields including a mandatory attachment in an ear-nose-and throat ward	84

Final written assignment (free topic)		Passed
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Clinical Education

Program for assessment of clinical competences (Competence cards)
1. Planning of anaesthesia and reception of patient
2. Airway management
3. IV anaesthesia and neuromuscular relaxation
4. Anaesthesia machines
5. Perioperative nursing
6. Rapid sequence induction
7. Inhaled anaesthetics
8. Regional anaesthesia
9. Sedation
10. Anaesthesia for laparoscopic surgery
11. Anaesthesia of geriatric patients
12. Anaesthesia for obese patients
13. Anaesthesia for children patients
14. Continuity of perioperative patient care
15. Anaesthesia for complex patients
16. Difficult airway management

Theoretical Education

Introductory lectures	Lessons
Structure and function of the anaesthesia machines	9
Work environment	2
Respiratory physiology	3
Preparing for anaesthesia and reception of the patient	3
Intravenous anaesthesia	3
Per-operative nursing	5
Neuromuscular transmission and neuromuscular blocking agents	3
Cardiovascular physiology	3
Inhalation anaesthetics	3
Documentation of anaesthetic courses	1
Introduction to clinical competencies, non-technical skills and to the nurse anaesthesia program	10
Positioning of the patient	3
Sum	48

Other lectures of natural science	Lessons
"To expect the unexpected"	6
Cardio team training	6
Sum	12

Lectures of natural science	Lessons
General pharmacology – pharmaco dynamics and pharmaco kinetics	5
Inhaled anaesthetics (physical and chemical properties, pharmacology and administration)	4
Neuromuscular transmission/monitoring and muscle relaxants	4
Pharmacology of intravenous anaesthetics	6
Regional anaesthesia	5
Anatomy and physiology of the central- and on the autonomous nervous system	6
The influence of drugs on the autonomous nervous system	3
Anaesthesia practice for patients with various medical conditions	22
Anaesthesia practice for patient in various surgical specialties	14
Anaesthesia for children over 2 years	6
Anaesthesia for the geriatric patient	3
Clinical monitoring (ET-CO ₂ , ET-gas, pressure-volume curves)	3
Circulation (circulatory physiology, pathophysiology, pharmacology)	4
Clinical monitoring (circulation)	2
ECG	6
Respiratory physiology, pathophysiology, pharmacology)	6
Acid-base balance	4
Fluids and electrolytes therapy	5
Bleeding, hemostasis and blood component therapy	5
Shock	2
Stress response	2
ABCDE principle - assessment of the critically ill patient	4
Anaesthetic treatment during transportation	2
Anaesthesia treatment of poisoned patients	2
Anaesthesia treatment of unconscious patients	1
Cardiopulmonary resuscitation	1
Airway management and rapid sequence induction	4
Preoperative assessment and preparation of the patient	3
Positioning for anaesthesia and surgery	3
Awareness	2
Documentation of anaesthesia courses	2
Anaesthesia complications	4
Legal issues in nurse anaesthesia	3
Pain management. Preventing and treating nausea	4
Postanaesthesia recovery	2
Thermal adjustment in anaesthesia	2
Receiving and treating of severely burned patients with regard to anaesthesia	2
Sum	160

Lectures: Quality development and cross-professional coordination and cooperation	<i>Lessons</i>
Theory of science method and Literature search	12
Quality management	4
Documentation	2
Ethics, moral and ethical dilemmas	6
Introduction to human science thesis and the final written thesis	3
Communication and short contacts (adults and children)	12
Nursing Science's contribution to clinical practice	6
Academic argumentation	3
Culture of organization and implementation	3
Preparation of thesis	14
Sum	65



**The Capital Region
of Denmark**



Simulation based training	Lessons
Inhalation anaesthetics	6
Rapid sequence induction	6
Hemodynamics	6
The difficult airway	6
Critical incidents in anesthetic management	6
Pediatric anesthesia	6
The clinical complex patient in anesthesia	12
Sum	48