

## VUmc Amstel Academie, Amsterdam, the Netherlands

Program Director: Else Ouweneel  
Postbus 7057, 1007 MB Amsterdam  
The Netherlands

**INITIAL RECOGNITION:** 2012  
**RENEWAL:** May 2017  
**Recognition valid until:** May 2022  
Extension granted until May 2024 due to change of program director and curriculum change

After applying for renewal the program was evaluated following the renewal process described in the International Federation of Nurse Anesthetists ANESTHESIA PROGRAM APPROVAL PROCESS (APAP): OPERATIONAL POLICIES AND PROCEDURES (pg7-8).

A current curriculum was presented to actualize the information about the program. Student and faculty evaluations were carried out and evaluated. Following the review of all information, renewal of Level 2 Recognition was granted based on the program's meeting eligibility requirements, ability to comply with the IFNA Education Standards, and attempts to continually improve.

### CURRICULUM OVERVIEW

**Credentials: Diploma CZO Diploma Anesthesiemedewerker**

<u>Term and Course</u>	<u>Hours</u>
<b>First year: Period 1 – BVP – Introduction to nursing (not mandatory for nurses)</b>	
<b>Theory</b>	
Introduction	16
Basic Anatomy	Embryology, respiratory system, blood, circulatory system, urogenital system, tractus gastro-enteralis, neurology (basic), thermos - balance, fluid therapy, immunology, endocrinology, reproductive system, muscular and skeletal systems, sensory receptors 60
Basic Pathology	Respiratory diseases, circulatory diseases, blood diseases, neurological diseases, gastro-intestinal diseases, diseases of the immune system, motorical diseases, diabetes, basic oncology 49
Basic Nursing	Nursing, first aid, hospital hygienic, basic OR skills, medical counting, BLS 132
Evidence Based Practice	Introduction, PICO 2,5
Communication Skills	25
Law	Organisation Dutch law and Healthcare law, privacy, professional confidentiality 9
Ethics	2
Study skills	6
<b>Internship Introduction Period (BVP)</b>	
OR	First introduction to operating theater and anesthesiology 16
All kind of departments in the hospital	Introduction to hospital - departments, for example: x-ray department, blood bank etc. 36

Ward	Basic nursing skills	108
<b>First year: Period 1 – TLP 1 – Introduction to anesthesia</b>		
<b>Theory</b>		
Introduction		4
Basic Anesthesiology care and technical aspects	History of anesthesia, preoperative care, induction, airway - management, infusion and fluid therapy, ECG (basic), anesthetic circuits, positioning, postoperative care, Basic Life Support, medical calculation, surgical techniques	68
Basic Pharmacology	Introduction, pharmacokinetics, pharmacodynamics, basic anesthesia medication	17
Intermediate Anatomy / Physiology	respiratory system, circulatory system	27
Intermediate Pathology	STD, respiratory diseases, rheumatic diseases, vascular diseases	16
Basic Physics	Electricity and safety	11
Law		5
Communication Skills		6
EBP	Reading scientific literature	5
Study skills and evaluation		16
<b>Clinical Practice (PLP 1)</b>	Basic anesthesia skills	360*
<b>First year: Period 2 – TLP 2 – Regional anesthesia</b>		
Introduction		
Basic Anesthesiology care and technical aspects	Regional anesthesia, infusion and fluid therapy, temperature - management, medical counting, surgical techniques, clinical reasoning, medical techniques, surgical techniques	46,5
Basic Pharmacology	Vaso-active drugs	10
Basic Anesthesiology and Pharmacology		25
Intermediate Anatomy / Physiology	Central-nerve system	20
Intermediate Pathology	Neurological diseases, brain - tumors, fluid and electrolyte homeostasis, temperature and sensory homeostasis (clinical reasoning)	28
Basic Chemistry		13
Law		6
Communication Skills		3
EBP		5
Ethics		3
Study skills and evaluation		4
<b>Clinical Practice (PLP 2)</b>	Basic anesthesia skills	720*
<b>Second year: Period 3 – TLP 3-I and 3-II</b>		
Intermediate Anesthesiology care and technical aspects	Blood product and fluid therapy, monitoring, airway - management, Advanced Life Support, clinical judgement & reasoning	74
Intermediate Pharmacology	Airway - medication, inotropica, anti-hypertensiva	14

Advanced Anesthesiology and Pharmacology	Anesthesia at a patient with respiratory difficulties, anesthesia at a patient with cardio – vascular difficulties	38
Advanced Physiology	Respiratory system , circulatory system	47
Advanced Pathology	Diseases of the lungs and the heart, diseases of the immune system, shock	31
Intermediate Biochemistry	Chemical counting, balance, electrolytes, hematology	36
Law	Responsibility, quality law	8
Communication Skills	Professional consultation	3
EBP / quality	Awareness of quality on the OR, reading scientific articles, making a research proposal	61
Ethics		2,5
Study skills and evaluation		10
<b>Clinical Practice (PLP 3)</b>	Intermediate anesthesia skills	720*
<b>Second year: Period 4 – TLP 4</b>		
Intermediate Anesthesiology care and technical aspects	Clinical judgement and reasoning, pediatric care, Advanced Life Support	20
Intermediate Pharmacology	Antibiotics, inotropica, anti-hypertensiva, anti-emetics, diuretics	8
Advanced Anesthesiology and Pharmacology	Anesthesia for surgical specialties: ophthalmic surgery, plastic surgery, laser surgery, ear- nose and throat surgery, urological surgery, gynecological surgery, maxillofacial and dental surgery, orthopaedic surgery, general surgery, day surgery. Anesthesia out of the OR Anesthesia for special patient categories: anesthesia for the elderly, pediatrics, obstetrics, obesity, addiction, liver failure, kidney failure, and anesthesia related syndromes.	65
Intermediate surgical aspects	ophthalmic surgery, plastic surgery, laser surgery, ear- nose and throat surgery, urological surgery, gynecological surgery, maxillofacial and dental surgery, orthopaedic surgery, general surgery.	25
Advanced Physiology	Immunology, endocrinology, kidney	25
Advanced Pathology	Diseases of the immune system, endocrinal diseases, pregnancy, liver - diseases, addiction.	18
Intermediate Biochemistry		18
Law	Legal aspects of birth and death, pregnancy and abortion; medical mistakes	10
Communication Skills	consultancy	3
EBP / quality	Research - methods, working on own research - project	60
Study skills and evaluation		5
<b>Clinical Practice (PLP 4)</b>	Intermediate anesthesia skills	720*

<b>Third year: Period 5 – TLP 5-I and 5-II</b>		
Advanced Anesthesiology care and technical aspects	Case study, Problem Based Anesthesia, AAAA, one lung ventilation, anesthesia at thoracic / lung surgery, ACLS, ABCDE protocol, trauma care, prehospital patient care, clinical judgement and reasoning, medical techniques	46
Intermediate surgical aspects	Traumatology, vascular surgery, neurosurgery	11
Advanced Anesthesiology and Pharmacology	Anesthesia for surgical specialties: Critically ill patient, traumatology, vascular surgery, thoracic surgery, neurosurgery, burns, organ - donation	21
Communication Skills	Coaching, being in control	8
EBP / quality	Working on own research - project (concept - phase)	100
Study skills and evaluation		2
<b>Clinical Practice (PLP 5)</b>	Advanced anesthesia skills	720*
<b>Second year: Period 6 – TLP 6-I and 6-II</b>		
Intermediate Anesthesiology care and technical aspects	Case study, Problem Based Anesthesia cardiac anesthesia, PH, (child)abuse, anesthesia in war zones, pain - management, clinical judgement and reasoning	21
Advanced Anesthesiology and Pharmacology	Anesthesia for surgical specialties: thoracic surgery, cardiac surgery, pain	11
Law	Professional rights	2
Communication Skills	Being in control	2
EBP / quality	Working on research project and implementing product	200
Study skills and evaluation		7
<b>Clinical Practice (PLP 6)</b>		720*

<b>Internships (during all 3 years)</b>		
<b>Unit</b>	<b>Minimal Hours</b>	
Central Sterilisation Unit	16	These hours are taking place during the clinical practice. The clinical site is responsible for the planning. It depends on the hospital when the internship is planned and how long the internship takes place.
Surgery (with OR nurses)	72	
Holding / Recovery / PACU	144	
IC / CCU	72	
ER	36	
Pain unit	8	
Procedural Sedation	8	
Preoperative Assessment	8	
Free internship	36	A student can do an internship of own choice. In our region we find students from an Academic Hospital going to a community hospital and the other way around (mostly 2 months) and students who are going to another country.

TLP= Theory Learning Period

PLP= Practice Learning Period

\* This is calculated for a student who is working full time. We didn't count holidays. Every year a student has about 25 days holiday ( $25 * 8 = 200$  hours). So every period you could draw 100 hours from the clinical practice.