

## Amstel Academie Amsterdam, the Netherlands

Program manager: Mrs. Marjolijn de Nijs  
 Team member: Jacqueline Bloemzaad  
 Team member  
 Correspondence: j.bloemzaad@vumc.nl  
 VUmc Amstel Academie  
 Postbox 7057  
 1007 MB Amsterdam  
 The Netherlands

### IFNA Recognition (level 2) effective February 2011 – May 2016

Anesthesia education programs holding Level 2: IFNA Recognition have met eligibility and application requirements for IFNA Recognition. Recognized programs have also undergone a successful curriculum audit to demonstrate substantial compliance with the “Content of Program Curriculum” in the Educational Standards. Information about a curriculum is current at date of application.

### CURRICULUM OVERVIEW

Three years vocational training

Year	Course	Level	Subject
1°	Nursing (not obliged for nurses)	Basic	Nursing, first aid, hospital hygienic, basic OR skills, medical counting, communication skills
	Anatomy (not obliged for nurses)	Basic	Embryology, respiratory system, blood, circulatory system, urogenital system, tractus gastro-enteralis, neurology (basic), thermobalans, fluid therapy, immunology, endocrinology, reproductive system, muscular and skeletal systems, sensory receptors
	Pathology (not obliged for nurses)	Basic	Respiratory diseases, circulatory diseases, blood diseases, neurological diseases, gastro-intestinal diseases, diseases of the immune system, motorical diseases, diabetes, basic oncology
1°	Anatomy / Physiology	Intermediate	respiratory system, circulatory system, central-nerve system, kidneys
	Pathology	Intermediate	STD, Respiratory diseases, rheumatic diseases, vascular diseases, neurological diseases, brain tumors
	Pharmacology	Basic	Introduction, pharmacokinetics, pharmacodynamics, local anesthetics, basis anesthesia medication
	Anesthesiology (lessons by anesthesiologist)	Basic	Preoperative care, choice of anesthesia, induction, perioperative anesthesia, awakening, postoperative care
	Anesthesiology care and technical aspects (lessons by nurse anesthetist)	Basic	History of anesthesia, preoperative care, induction, airway management, infusion and fluid therapy, EKG (basic), regional anesthesia, anesthetic circuits, positioning, postoperative care, Basic Life Support, temperature management, medical counting, safety on the

			OR, legal aspects, medical ethics, communication skills
	Physics	Basic	Electricity, etc.
	Medical technique	Basic	
2°	Physiology	Advanced	Respiratory system, circulatory system, immunology, endocrinology.
	Pathology	Advanced	Diseases of the lungs and the heart, diseases of the immune system, endocrine diseases, pregnancy, liver diseases, addiction.
	Pharmacology	Intermediate	Antibiotics, inotropica, anti-hypertensiva, anti-emetics, airway medication, diuretics
	Anesthesiology (lessons by anesthesiologist)	Advanced	Ventilation (normal and respiratory diseased patient), Circulation, bloodgas, haematological disorders, advanced life support
	Anesthesiology (lessons by anesthesiologist)	Intermediate	Anesthesia for surgical specialties: ophthalmic surgery, plastic surgery, laser surgery, ear- nose and throat surgery, urological surgery, gynaecologic 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, anesthesia - related syndromes.
	Surgery (lessons by surgeons)	Intermediate	ophthalmic surgery, plastic surgery, laser surgery, ear- nose and throat surgery, urological surgery, gynaecologic surgery, maxillofacial and dental surgery, orthopaedic surgery, general surgery.
	Anesthesiology care and technical aspects (lessons by nurse anesthetist)	advanced	Blood product and fluid therapy, monitoring, airway management, Advanced Life Support, pediatric advanced life support, Clinical judgement & reasoning, communication skills, legal aspects, medical ethics
	Physics / chemistry	Intermediate / advanced	
	Medical technique	Advanced	
3°	Anesthesiology (lessons by anesthesiologist)	Advanced	Anesthesia for surgical specialties: Critically ill patient, traumatology, vascular surgery, neurosurgery, thoracic surgery, cardiac surgery, burns.
	Surgery (lessons by surgeons)	Advanced	Traumatology, vascular surgery, neurosurgery, thoracic surgery, cardiac surgery
	Anesthesiology care and technical aspects (lessons by nurse anesthetist)	Advanced	Problem based anesthesia, Clinical judgement & reasoning, Advanced Life Support, coaching, communication skills, legal aspects, medical ethics, making a quality improving paper and product.