

Further Education (FE)- Competencies O & U - NEW

BÄK principles

Draft Further Education Order 2003, in the version of 25/06/2010, Draft Guidelines 2003 in the version of 18/02/2011

Competency building blocks	Further education contents LEVEL 2	Further education contents LEVEL 3	Further education contents LEVEL 4 (coefficients)
General contents	Ethical, scientific and legal principles of medical practice Medical assessment Quality assurance and quality management measures, including error and risk management Medical communication, including advising affiliates Psychosomatic principles Interdisciplinary collaboration Vaccination policy Legal principles of the profession, e.g. Patients' Rights Act (Quality and Risk Management) Human Tissue Act Transplant Act Transfusion Act Laser Protection Order Hygiene Act	Procedural principles for medical examiners and injury classification procedures from commercial professional associations X-Ray Order	Assessments in specific fields for commercial, professional associations, insurances, authorities and courts (25)
	Aetiology, pathophysiology and pathogenesis of field-specific [word missing]	Recognition, classification and treatment of field-specific [word missing]	

Competency building blocks	Further education contents LEVEL 2	Further education contents LEVEL 3	Further education contents LEVEL 4 (coefficients)
	Diseases and injuries Biomechanics Explanation and findings documentation Principles of quality and risk management, both generally and in the specific context of conservative and operative measures in the field, together with action in the event of loss or damage Interdisciplinary Indication and recommendations for further diagnosis, including differential diagnosis and the interpretation of radiological findings in connection with field-specific issues	Disease and injury Risk evaluation, explanation and documentation of field-specific illnesses	
	Verification procedures supported by laboratory technology, with visual or instrument-based evaluation	Indication for recommendations, properly taking and processing samples for laboratory investigations and attributing results to the appropriate clinical picture	Puncture and catheterisation techniques, including taking samples of material for investigation (10)
	Histopathological investigative procedures	Indication for recommendations, properly taking and processing samples for histopathological investigations and attributing results to the appropriate clinical picture	Extraction techniques, including taking samples of material for investigation (10)
	Principles of pharmacotherapy, including drug interactions, drug misuse and drug therapy safety	Field-specific drug therapy Medicamentous thrombosis prophylaxis	
	General pain therapy	Analgesic and sedation techniques, including treating incidences of acute pain	Local and regional anaesthetics (50) Attested medicinal therapy for chronic pain (25) Attested perioperative pain therapy (25)

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	Care for the seriously ill and dying Psychosocial, environmental and intercultural influences on health Health economic effects of medical practice Structure of the public health service	Caring for patients to be treated with palliative care	
Emergency & intensive medicine	Medical emergencies	Recognition and treatment of acute emergencies, including life-saving measures to maintain vital functions and reanimation	Emergency interventions, e.g. in body cavities, tracheotomy, chest drains, thoracotomies, laparotomies (10)
	Polytrauma	Treating patients with severe or multiple injuries, including trauma management Providing the appropriate neurotraumatologic, thoracic, vascular and visceral surgery measures in collaboration with other disciplines in the event of an emergency	Collaboration in and documentation of the treatment of the seriously injured (ISS >16) (10)
	Intensive care measures	Respiratory techniques and treating intensive care patients Supervision, monitoring and documentation of the seriously injured Organ support (lungs, kidneys) Pathopsychology of injuries and their consequences, or operative procedures Pharmacology of cardiovascular support	Infusion, transfusion and blood replacement therapy enteral and parenteral feeding, including sonde techniques (50) Cardiopulmonary ranimation and intubation, including providing central venous access routes (15) for polytraumatised patients and in medical emergencies (25) attested treatment of invasive/non-invasive forms of respiration for intensive care patients (10)

Competency building blocks	Further education contents LEVEL 2	Further education contents LEVEL 3	Further education contents LEVEL 4 (coefficients)
		Consideration of differences between different age groups	
	Indication for recommendation and supervision of physical therapy/physiotherapy	Organisation, performance, supervision and documentation of the prescription of physical therapy such as manual therapy, remedial gymnastics on neurological basis, osteopathic therapy, ergotherapy, medical training therapy, massage therapy, electrotherapy and ultrasound therapy, hydrotherapy, heat and cold tolerance therapy, balneotherapy, shockwave therapy	Recommendation, organisation and supervision of physical therapeutic measures, including <ul style="list-style-type: none"> - for chronic orthopaedic illnesses (25) - in orthopaedic and trauma surgery rehabilitation and early mobilisation (50)
	Soft tissue injuries, wounds and burns	Diagnosis and treatment, including collaboration during reconstructive procedures Principles of wound care, wound treatment and desmurgia	Wound care, including the treatment of thermal and chemical injuries (50)
	inborn and acquired deformities and dysmaturities	Conservative, functional and operative treatment	Documentation, diagnosis and conservative treatment, including pain therapy measures, inter alia <ul style="list-style-type: none"> - for degenerative and inflammatory illnesses (50) - for innate and acquired deformities in adulthood (25) - for innate and acquired deformities in childhood (25), of which <ul style="list-style-type: none"> ■ for hip dysplasia (10) ■ for deformities of the foot (10) - during luxations, fractures, etc.
	Rheumatic illnesses	Principles of diagnosis, conservative (including medicinal therapy) and operative treatment	
	Injuries, diseases and functional defects of the hand	Diagnosis, conservative and operative treatment	
	Sports injuries and sport-related harm, and its side-effects	Prevention, diagnosis and conservative and operative treatment	
	Bone diseases and osteoporosis	Prevention, conservative and operative treatment, including medicinal treatment	

Competency building blocks	Further education contents LEVEL 2	Further education contents LEVEL 3	Further education contents LEVEL 4 (coefficients)
			Distortions (100) for chronic pain illnesses of the locomotor system, using standardised psychosocial evaluation instruments (10)
	Infections	Diagnosis, conservative, operative and medicamentous treatment of infections, including basic epidemiological principles and hygiene measures	
	Tumours of the musculoskeletal and locomotor system	Diagnosis and principles of conservative, medicinal and operative treatment	
	Technical orthopaedics	Training in the use of orthopaedic aids, including checking those aids during fitting and after completion	Set up, supervision and documentation of the prescription of orthopaedic aids (50)
	Injection and puncture techniques		Injections and punctures to the spinal column and joints (100), of which Radiologically/sonographically controlled injections for pain in the spinal column and the joints (50)
	Operative interventions and operative steps for injuries, functional defects and illnesses of the shoulder, pectoral girdle, upper arm, elbow, forearm, hand, pelvis, hip joint, upper leg, knee joint, lower leg, ankle, foot, thorax, skull and spinal column	Principles of perioperative diagnosis and treatment including preparation, independent performance and aftercare Initial assistance with operations and accompanied operations Technical and biomechanical principles of osteosynthetic and other operative procedures	Outpatient orthopaedic surgery and trauma surgery (50) Soft tissue surgery (30) Arthroscopies (50) Osteosynthesis for fractures and osteotomies (100), of which at least on long hollow bones (25) Endoprotheses for the shoulder, hip and knee

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			(20) Synovectomies (10; spinal surgery, e.g. operations on intervertebral discs, fractures, decompression (10) Surgery on nerves, blood vessels and tendons (10) Surgery on infections to soft tissue, bones or joints (10) Wound treatment (10) Implant removal (25)
	Collaborating on more complex operative surgery	Initial assistance on more complex surgery to the spinal column and joints together with changing endoprotheses and implants	