



 <p style="text-align: center;">Board of Certification for Emergency Nursing™ Excellence. Achievement. Impact.</p> <p style="text-align: center;">Certified Flight Registered Nurse (CFRN) Examination Content Outline</p>	Total items
1. General Principles of Flight Transport Nursing Practice	28
A. Transport Physiology <ol style="list-style-type: none"> 1. Physiologic stressors of transport (e.g., vibration, altitude changes, noise) <ol style="list-style-type: none"> a. Crew b. Patients 	7
B. Scene Operations Management <ol style="list-style-type: none"> 1. Scene safety (e.g., hazmat, exposures) 2. Landing Zone Operations 	2
C. Communications <ol style="list-style-type: none"> 1. Radio operations (e.g., equipment, medical control, satellite phone) 2. Patient handoff (e.g., history from referring provider, updates for receiving provider, SBAR) 3. Crew resource management 	5
D. Safety and Survival <ol style="list-style-type: none"> 1. ELT 2. Navigation (e.g., maps, GPS, night-vision goggles) 3. Survival principles (post-crash) 4. Transport vehicle emergencies 5. Pre-mission preparation (e.g., shift preparedness, risk assessment, crew briefings, weather, AMRM) 	6
E. Disaster Management (e.g., natural, terrorism, industrial accident, transportation accident, mass casualties, Incident Command System)	1
F. Professional Issues <ol style="list-style-type: none"> 1. Legal Issues <ol style="list-style-type: none"> a. HIPAA b. EMTALA c. Consent d. Mandatory reporting (e.g., abuse, neglect, medication diversion, non-accidental trauma) e. Legal concepts in patient care (e.g., advanced directives, negligence, assault, battery, abandonment) 2. Ethical Issues 3. Psychosocial issues in transport, including families 	5

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G. Systems Management		2
1. Quality management 2. Just Culture 3. Healthy work environment (e.g., wellness program, stress management) 4. Outreach and community education		
2. Resuscitation Principles		38
A. Principles of Assessment and Patient Preparation		6
1. Physical assessment 2. Pain and comfort assessment 3. Preparing the patient for transport (i.e., packaging)		
B. Airway		10
1. Airway assessment 2. Airway management 3. Difficulties encountered with airway 4. Rapid Sequence Induction for Intubation (RSI), including pharmacology 5. Post-intubation management, including pharmacology		
C. Mechanical Ventilation		10
1. Invasive ventilation 2. Non-invasive ventilation		
D. Perfusion		12
1. Components of oxygen delivery <ol style="list-style-type: none"> fluid resuscitation blood products vasopressors 2. Shock and resuscitation management, including trauma and medical <ol style="list-style-type: none"> Hypovolemic Obstructive Distributive Cardiogenic 3. Acid base imbalances		

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3. Trauma	29
A. Principles of Management	5
<ol style="list-style-type: none"> 1. Mechanism of injury 2. Hemostasis (e.g., TXA, tourniquets, hemostatic agents) 3. Trauma triad (i.e., hypothermia, acidosis, coagulopathies) 4. Immobilization 	
B. Neurologic	6
<ol style="list-style-type: none"> 1. Traumatic brain injuries 2. Spinal cord injuries 3. Secondary brain injury 	
C. Thoracic	5
<ol style="list-style-type: none"> 1. Chest wall injuries 2. Pulmonary injuries 3. Cardiac injuries 4. Great vessel injuries 	
D. Abdominal	4
<ol style="list-style-type: none"> 1. Hollow organ injuries 2. Solid organ injuries 3. Diaphragmatic injuries 4. Retroperitoneal injuries 5. Abdominal compartment syndrome 	
E. Musculoskeletal	4
<ol style="list-style-type: none"> 1. Vertebral injuries 2. Pelvic injuries 3. Compartment syndrome 4. Rhabdomyolysis 5. Amputations 6. Extremity injuries 	
F. Burn	3
<ol style="list-style-type: none"> 1. Chemical burns 2. Electrical burns 3. Thermal burns 4. Radiological burns 5. Inhalation injuries 	

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G. Maxillofacial and Neck	2
<ol style="list-style-type: none"> 1. Facial injuries, including fractures 2. Ocular injuries 3. Blunt and penetrating neck injuries 	
4. Medical Emergencies	40
A. Neurologic	5
<ol style="list-style-type: none"> 1. Seizure disorders 2. Ischemic stroke (e.g., blood pressure management) 3. Neuromuscular disorders 4. Space occupying lesions (e.g., bleeding, tumors, abscesses, hydrocephalus) 	
B. Cardiovascular	10
<ol style="list-style-type: none"> 1. Acute coronary syndrome 2. Heart failure <ol style="list-style-type: none"> a. pulmonary edema b. structural defects c. infectious or inflammatory processes 3. Dysrhythmias 4. Aortic abnormalities (e.g., hypertension, blood pressure management) 5. Mechanical/circulatory support (e.g., ECMO, IABP, VAD, pacing) 	
C. Pulmonary	4
<ol style="list-style-type: none"> 1. Restrictive airway disease (i.e., COPD, Asthma) 2. Obstructive airway disease (e.g., acute lung injury/ARDS, pulmonary infections) 3. Pulmonary embolism 4. Pulmonary hypertension 	
D. Abdominal	2
<ol style="list-style-type: none"> 1. Abdominal compartment syndrome 2. GI bleed 3. Conditions of the hollow organs (e.g., obstruction, rupture) 4. Conditions of the solid organs (e.g., pancreatitis, hepatitis) 	
E. Electrolyte Disturbances	2

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<p>F. Metabolic and Endocrine</p> <ol style="list-style-type: none"> 1. Diabetic emergencies 2. Neuroendocrine disorders (e.g., diabetes insipidus, SIADH, HHNK) 3. Thyroid conditions 4. Adrenal disorders 	4
<p>G. Hematology</p> <ol style="list-style-type: none"> 1. Coagulopathies (including platelet disorders) 2. Anemias 	2
<p>H. Renal</p> <ol style="list-style-type: none"> 1. Acute kidney injury 2. Chronic renal failure 	2
<p>I. Infectious and Communicable Diseases</p> <ol style="list-style-type: none"> 1. Sepsis 2. Infection control (e.g., MRSA, influenza-like illness, highly-infectious diseases) 	3
<p>J. Environmental and Toxicological Emergencies</p> <ol style="list-style-type: none"> 1. Environment <ol style="list-style-type: none"> a. Allergic reactions b. Cold related (e.g., hypothermia, frostbite) c. Heat related (e.g., heatstroke, heat exhaustion) d. Submersion injuries (i.e., drowning, near drowning) e. Evolved gas disorders (i.e., high altitude illness, scuba diving) f. Bites and envenomation 2. Toxicology 	6
<p>5. Special Populations</p>	15
<p>A. Obstetrical Patients</p> <ol style="list-style-type: none"> 1. Trauma 2. Medical (e.g., complications of pregnancy) 3. Pharmacological considerations 4. Delivery and post-partum care 	5
<p>B. Neonatal / Pediatric</p> <ol style="list-style-type: none"> 1. Trauma 2. Medical 3. Pharmacological considerations 	6

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C. Geriatric		2
<ol style="list-style-type: none"> 1. Trauma 2. Medical 3. Pharmacological considerations 		
D. Bariatric (e.g., logistical issues, skin issues, airway management)		2
<ol style="list-style-type: none"> 1. Trauma 2. Medical 3. Pharmacological considerations 		
Total		150