

 <p data-bbox="670 268 1062 363">BOARD OF CERTIFICATION FOR EMERGENCY NURSING™ Excellence. Achievement. Impact.</p> <p data-bbox="412 411 1138 499">Certified Flight Registered Nurse (CFRN) Examination Content Outline</p>	Total items
1. General Principles of Flight Transport Nursing Practice	30
A. Transport Physiology	
<ul style="list-style-type: none"> 1. Physiologic stressors <ul style="list-style-type: none"> a. Crew b. Patients 	
B. Scene Operations Management	
<ul style="list-style-type: none"> 1. Scene safety 2. Landing Zone Operations 3. Disaster management 4. EMTALA 	
C. Communications	
<ul style="list-style-type: none"> 1. Radio operations 2. Patient handoff 3. Air Medical Resource Management 4. Just Culture 	
D. Safety and Survival	
<ul style="list-style-type: none"> 1. Navigation (e.g., maps, GPS, night-vision goggles) 2. Survival principles 3. Transport vehicle emergencies 4. Pre-mission preparation 	
E. Principles of Assessment and Patient Preparation	
<ul style="list-style-type: none"> 1. Physical assessment 2. Preparing the patient for transport 	
2. Resuscitation Principles	40
A. Airway	
<ul style="list-style-type: none"> 1. Airway assessment 2. Pre-intubation optimization 3. Airway management 4. Airway complications 5. Pharmacologic assisted intubation 6. Post-intubation management, including pharmacology 	
B. Mechanical Ventilation	
<ul style="list-style-type: none"> 1. Invasive ventilation 2. Non-invasive ventilation 	

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<p style="text-align: center;">Certified Flight Registered Nurse (CFRN) Examination Content Outline</p> <p>C. Perfusion</p> <ol style="list-style-type: none"> 1. Circulatory management <ol style="list-style-type: none"> a. Fluid resuscitation b. Blood products c. Vasopressors 2. Shock management <ol style="list-style-type: none"> a. Hypovolemic b. Obstructive c. Distributive d. Cardiogenic 	
3. Trauma	30
A. Principles of Management	
<ol style="list-style-type: none"> 1. Mechanism of injury 2. Hemostasis 3. Trauma diamond 4. Spinal motion restriction 	
B. Neurologic	
<ol style="list-style-type: none"> 1. Traumatic brain injuries 2. Spinal cord injuries 3. Secondary brain injuries 	
C. Maxillofacial and Neck	
<ol style="list-style-type: none"> 1. Facial injuries 2. Ocular injuries 3. Blunt and penetrating neck injuries 	
D. Thoracic	
<ol style="list-style-type: none"> 1. Chest wall injuries 2. Pulmonary injuries 3. Cardiac injuries 4. Great vessel injuries 	
E. Abdominal	
<ol style="list-style-type: none"> 1. Hollow organ injuries 2. Solid organ injuries 3. Diaphragmatic injuries 4. Retroperitoneal injuries 	
F. Musculoskeletal	

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1. Pelvic injuries 2. Crush injuries 3. Extremity injuries	
G. Burn	
1. Chemical 2. Electrical 3. Thermal	
4. Medical Emergencies	35
A. Neurologic	
1. Seizure disorders 2. Strokes 3. Neuromuscular disorders 4. Space occupying lesions 5. ICP management	
B. Cardiovascular	
1. Acute coronary syndrome 2. Acute heart failure 3. Dysrhythmias 4. Aortic emergencies <ul style="list-style-type: none"> a. Dissection b. Aneurysm 5. Mechanical Circulatory Support	
C. Pulmonary	
1. Restrictive airway disease 2. Obstructive airway disease 3. Pulmonary embolism 4. Inhaled pulmonary vasodilators	
D. Abdominal	
1. Abdominal compartment syndrome 2. GI bleed 3. Conditions of the hollow organs 4. Conditions of the solid organs	

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<p data-bbox="272 527 683 558">E. Metabolic and Endocrine</p> <ol data-bbox="354 569 779 680" style="list-style-type: none"> 1. Diabetic emergencies 2. Neuroendocrine disorders 3. Sepsis 	
<p data-bbox="272 686 500 718">F. Hematology</p> <ol data-bbox="354 728 630 800" style="list-style-type: none"> 1. Coagulopathies 2. Anemias 	
<p data-bbox="272 806 402 837">G. Renal</p> <ol data-bbox="354 848 695 919" style="list-style-type: none"> 1. Acute kidney injury 2. Chronic renal failure 	
<p data-bbox="272 926 987 957">H. Environmental and Toxicological Emergencies</p> <ol data-bbox="354 968 824 1199" style="list-style-type: none"> 1. Environment <ol data-bbox="451 1003 824 1157" style="list-style-type: none"> a. Allergic reactions b. Temperature related c. Submersion injuries d. Bites and envenomation 2. Toxicology 	
5. Special Populations	15
<p data-bbox="272 1262 613 1293">A. Obstetrical Patients</p> <ol data-bbox="354 1304 850 1451" style="list-style-type: none"> 1. Trauma 2. Medical 3. Pharmacological considerations 4. Delivery and post-partum care 	
<p data-bbox="272 1461 613 1493">B. Neonatal / Pediatric</p> <ol data-bbox="354 1503 850 1608" style="list-style-type: none"> 1. Trauma 2. Medical 3. Pharmacological considerations 	
<p data-bbox="272 1619 451 1650">C. Geriatric</p> <ol data-bbox="354 1661 850 1766" style="list-style-type: none"> 1. Trauma 2. Medical 3. Pharmacological considerations 	
D. Bariatric	

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<ol style="list-style-type: none"> 1. Trauma 2. Medical 3. Pharmacological considerations 4. Transport considerations 	
Total	150

Procedures

1. 12-lead ECG
2. Aircraft safety
3. Arterial line
4. Blood product administration
5. Capnography for intubated patients
6. Capnography for non-intubated patients
7. Cardiac pacing
8. Central line
9. Chest tube
10. ECMO
11. Endotracheal intubation
12. Escharotomy
13. Fetal Doppler
14. Finger thoracostomy
15. Fracture/dislocation stabilization
16. Hemostatic agents
17. High flow nasal cannula
18. IABP
19. ICP monitoring
20. Impella®
21. Initiate/titrate medications
22. Intraosseous access
23. Landing zone assessment
24. Mechanical CPR devices
25. Mechanical ventilation
26. Needle cricothyrotomy
27. Needle thoracostomy
28. Non-invasive ventilation
29. Operational communication
30. PA catheter
31. Pelvic stabilization
32. Point of care ultrasound
33. Surgical cricothyrotomy
34. Supraglottic airway
35. Tourniquet
36. VAD