

 <p>BOARD OF CERTIFICATION FOR EMERGENCY NURSING™ Excellence. Achievement. Impact.</p> <p>Certified Transport Registered Nurse (CTRN) Examination Content Outline</p>	Total items
1. General Principles of Ground Transport Nursing Practice	22
A. Transport Physiology <ol style="list-style-type: none"> Physiologic stressors of transport <ol style="list-style-type: none"> Crew Patients 	
B. Scene Operations Management and Safety <ol style="list-style-type: none"> Scene safety Emergency vehicle operations Transport vehicle emergencies and post incident procedures Pre-mission preparation 	
C. Communications <ol style="list-style-type: none"> Dispatch communications Patient handoff Crew resource management 	
D. Legal Issues <ol style="list-style-type: none"> EMTALA Legal concepts in patient care Consent 	
2. Resuscitation Principles	40
A. Principles of Assessment and Patient Preparation <ol style="list-style-type: none"> Physical assessment Trauma assessment Pain and comfort assessment Preparing the patient for transport 	
B. Airway <ol style="list-style-type: none"> Airway assessment Airway management Rapid Sequence Induction Post-intubation management, including pharmacology 	
C. Ventilation and Oxygenation <ol style="list-style-type: none"> Invasive Non-invasive 	

D. Shock and Resuscitation Management	
<ol style="list-style-type: none"> 1. Hypovolemic 2. Obstructive 3. Distributive 4. Cardiogenic 	
3. Patient Conditions and Principles of Management	65
A. Neurologic	
<ol style="list-style-type: none"> 1. Traumatic brain injury 2. Spinal cord injury 3. Secondary brain injury 4. Seizure disorders 5. Ischemic stroke 6. Hemorrhagic stroke 	
B. Cardiovascular	
<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 5. Mechanical/circulatory support 6. Thoracic trauma <ol style="list-style-type: none"> a. Cardiac injury b. Great vessel injury 	
C. Pulmonary	
<ol style="list-style-type: none"> 1. Restrictive airway disease 2. Obstructive airway disease 3. Pulmonary embolism 4. Pulmonary hypertension 5. Pulmonary injury 6. Chest wall injury 	
D. Abdominal	
<ol style="list-style-type: none"> 1. Abdominal compartment syndrome 2. GI bleed 3. Injuries/conditions of hollow organs 4. Injuries/conditions of solid organs 5. Diaphragmatic injury 	

E. Musculoskeletal	
1. Vertebral injury	
2. Pelvic injury	
3. Compartment syndrome	
4. Rhabdomyolysis	
5. Amputations	
6. Extremity injury	
7. Maxillofacial and neck injuries	
F. Metabolic and Endocrine	
1. Diabetic emergencies	
2. Neuroendocrine disorders	
3. Thyroid conditions	
4. Adrenal disorders	
G. Renal	
H. Environmental and Toxicological	
1. Environment	
a. Allergic reactions	
b. Cold related	
c. Heat related	
d. Submersion injuries	
e. Bites and envenomation	
2. Toxicology	
I. Burns	
1. Chemical	
2. Electrical	
3. Thermal	
J. Lab Abnormalities Hematology and Electrolyte Imbalances	
4. Special Populations	23
A. Obstetric	
1. Trauma	
2. Medical	
3. Pharmacological considerations	
4. Positioning	
5. Delivery and post-partum care	

B. Neonatal/Pediatric	
1. Trauma	
2. Medical	
3. Pharmacological considerations	
4. Positioning	
5. Transport securement devices	
C. Geriatric	
1. Trauma	
2. Medical	
3. Pharmacological considerations	
4. Positioning	
D. Bariatric	
1. Trauma	
2. Medical	
3. Pharmacological considerations	
4. Positioning	
Total	150

Advanced Intervention Awareness

1. 12-lead ECG
2. Arterial line
3. Blood product administration
4. Capnography
5. Cardiac pacing
6. Central line
7. Chest radiographs
8. Chest tube
9. Cricothyrotomy
10. CT scans
11. ECMO
12. Endotracheal intubation
13. Escharotomy
14. Fetal Doppler
15. Fracture/dislocation/stabilization management
16. Hemostatic agents
17. High flow nasal cannula
18. IABP
19. ICP/EVD monitoring
20. Impella®
21. Initiate/titrate medications
22. Intraosseous access
23. Isolette
24. Mechanical CPR devices
25. Mechanical Ventilation
26. Nitric oxide/heliox/epoprostenol administration
27. Non-invasive ventilation
28. PA catheter
29. Pelvic stabilization
30. Pericardiocentesis
31. Point-of-care testing
32. Point-of-care ultrasound
33. Thermoregulation
34. Thoracostomy
35. Tourniquet
36. VAD