



 <p style="text-align: center;">Board of Certification for Emergency Nursing™ Excellence. Achievement. Impact.</p> <p style="text-align: center;">Certified Transport Registered Nurse (CTRN) Examination Content Outline</p>	Total items
1. General Principles of Ground Transport Nursing Practice	19
A. Transport physiology	3
<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 	
B. Scene Operations Management	2
<ol style="list-style-type: none"> 1. Scene safety (e.g., hazmat, exposures) 2. Response mode 3. Emergency vehicle operations 	
C. Communications	3
<ol style="list-style-type: none"> 1. Radio operations (e.g., equipment, medical control, paging operations) 2. Patient handoff (e.g., history from referring provider, updates for receiving provider, SBAR) 3. Crew resource management 	
D. Safety and Survival	2
<ol style="list-style-type: none"> 1. Navigation (e.g., maps, GPS) 2. Survival principles (post-crash) 3. Transport vehicle emergencies 4. Pre-mission preparation (e.g., shift preparedness, risk assessment, crew briefings, weather) 	
E. Disaster Management (e.g., natural, terrorism, industrial accident, transportation accident, mass casualties, Incident Command System)	1
F. Professional Issues	5
<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 	

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G. Systems Management	3
<ol style="list-style-type: none"> 1. Quality management 2. Just Culture 3. Healthy work environment (e.g., wellness program, stress management) 4. Outreach and community education 	
2. Resuscitation Principles	33
A. Principles of Assessment and Patient Preparation	4
<ol style="list-style-type: none"> 1. Physical assessment 2. Pain and comfort assessment 3. Preparing the patient for transport (i.e., packaging) 	
B. Airway	6
<ol style="list-style-type: none"> 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
<ol style="list-style-type: none"> 1. Invasive ventilation 2. Non-invasive ventilation 	
D. Perfusion	13
<ol style="list-style-type: none"> 1. Components of oxygen delivery <ol style="list-style-type: none"> a. fluid resuscitation b. blood products c. vasopressors 2. Shock and resuscitation management, including trauma and medical <ol style="list-style-type: none"> a. Hypovolemic b. Obstructive c. Distributive d. Cardiogenic 3. Acid base imbalances 	

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3. Trauma		22
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		4
	<ol style="list-style-type: none"> 1. Traumatic brain injuries 2. Spinal cord injuries 3. Secondary brain injury 	
C. Thoracic		4
	<ol style="list-style-type: none"> 1. Chest wall injuries 2. Pulmonary injuries 3. Cardiac injuries 4. Great vessel injuries 	
D. Abdominal		2
	<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		3
	<ol style="list-style-type: none"> 1. Vertebral injuries 2. Pelvic injuries 3. Compartment syndrome 4. Rhabdomyolysis 5. Amputations 6. Extremity injuries 	
F. Burn		2
	<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	39
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	6
<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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F. Metabolic and Endocrine <ol style="list-style-type: none"> 1. Diabetic emergencies 2. Neuroendocrine disorders (e.g., diabetes insipidus, SIADH, HHNK) 3. Thyroid conditions 4. Adrenal disorders 	3
G. Hematology <ol style="list-style-type: none"> 1. Coagulopathies (including platelet disorders) 2. Anemias 	1
H. Renal <ol style="list-style-type: none"> 1. Acute kidney injury 2. Chronic renal failure 	2
I. Infectious and Communicable Diseases <ol style="list-style-type: none"> 1. Sepsis 2. Infection control (e.g., MRSA, influenza-like illness, highly-infectious diseases) 	4
J. Environmental and Toxicological Emergencies <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. Bites and envenomation 2. Toxicology 	3
K. Mental Health Considerations	1
5. Special Populations	17
A. Obstetrical Patients <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
B. Neonatal/Pediatric <ol style="list-style-type: none"> 1. Trauma 2. Medical 3. Pharmacological considerations 	6

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C. Geriatric		4
<ol style="list-style-type: none"> 1. Trauma 2. Medical 3. Pharmacological considerations 		
D. Bariatric		2
<ol style="list-style-type: none"> 1. Trauma 2. Medical 3. Pharmacological considerations 		
Total		130