

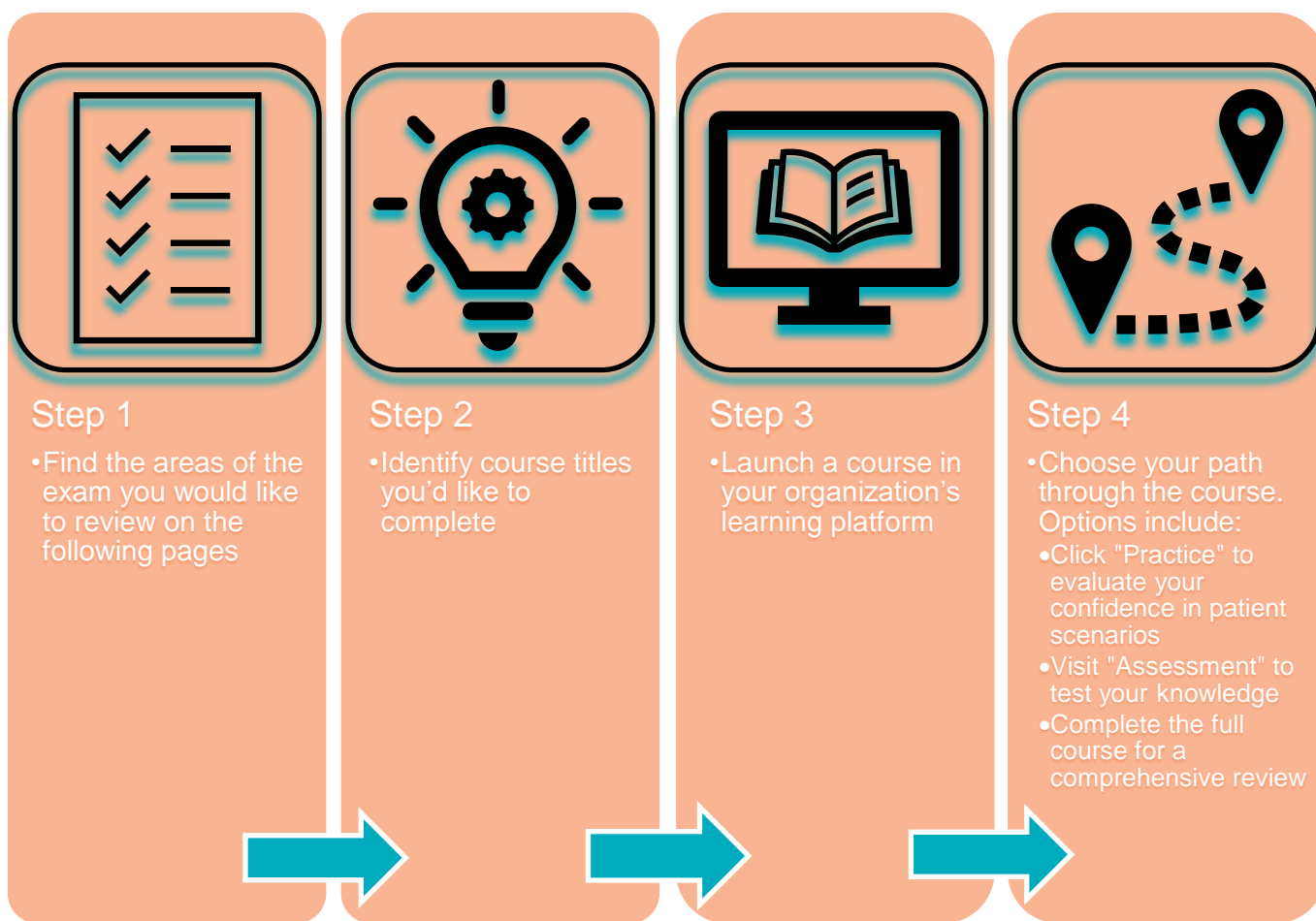
Pediatric Learning Solutions

Pediatric Learning Solutions' Course Alignment with CPEN® Exam Content Outline

The following Pediatric Learning Solutions courses align to focus areas of the Certified Pediatric Emergency Exam (CPEN®) Content Outline. These courses support candidates by delivering foundational content and are a respected preparatory resource to consider prior to their exam. Go to the [Board of Certification for Emergency Nursing](#) site for more information on the CPEN® Exam.

*These courses are not currently included in the ED Suite.

Steps to Using this Study Guide



As you review this study guide, please note:

- ✓ It may not be necessary to complete every course on the list—Focus on areas in which learning reinforcement is needed and desired.
- ✓ Some courses apply to multiple exam content focus areas and are therefore listed multiple times.

Triage Process

Emergency Intake

- ✓ Caring for the Patient with Behavioral Challenges
- ✓ Care of the Pediatric Patient with Suicidal Ideation
- ✓ Crisis Prevention Through Verbal and Non-Verbal De-escalation Strategies
- ✓ Emergency Response for the Deteriorating Pediatric Patient
- ✓ *Introduction to Workplace Diversity, Equity and Inclusion
- ✓ Tuberculosis
- ✓ Assessment of the Critically Ill Child

Assessment

History and Physical

- ✓ Assessment of the Critically Ill Child
- ✓ Age-Specific Care for: Adolescents
- ✓ Age-Specific Care for: Adults
- ✓ Age-Specific Care for: Infants
- ✓ Age-Specific Care for: Newborns
- ✓ Age-Specific Care for: Preschoolers
- ✓ Age-Specific Care for: Toddlers
- ✓ Age-Specific Care for: School-Age Children
- ✓ Care of the Pediatric Patient with Suicidal Ideation
- ✓ Caring for the Patient with Behavioral Challenges
- ✓ Comprehensive Assessment of the Neonate
- ✓ Child Abuse and Neglect
- ✓ *Developmental Care of the Newborn
- ✓ Family-Centered Care in the ICU
- ✓ Fluid and Electrolytes: Laboratory Assessment
- ✓ Fluid and Electrolytes: Assessment
- ✓ Fluid and Electrolytes: Physiological Differences
- ✓ Glucose Homeostasis in the Neonate
- ✓ Introduction to Pediatric Pressure Injuries

- ✓ Asthma

Emergency Preparedness

- ✓ Healthcare Emergency Management
- ✓ EMTALA Overview
- ✓ *Hazardous Chemicals
- ✓ *Infectious Waste
- ✓ Radiation Safety

- ✓ Neonatal Sepsis
- ✓ Pediatric Assessment: The Cardiovascular System
- ✓ Pediatric Assessment: The Gastrointestinal System
- ✓ Pediatric Assessment: The Genitourinary System
- ✓ Pediatric Assessment: The Integumentary System
- ✓ Pediatric Assessment: The Musculoskeletal System
- ✓ Pediatric Assessment: The Neurological System
- ✓ Pediatric Assessment: The Respiratory System
- ✓ Pediatric Assessment: Performing a Head-to-Toe Assessment
- ✓ Pressure Injuries in the Pediatric Population: Staging and Care
- ✓ Pressure Injuries Staging Assessment
- ✓ Pediatric Sepsis
- ✓ The Deadly Triad of Trauma
- ✓ *Caring for the Complex Patient
- ✓ *Health Care Advance Directives: Communicating Wishes

Pain

- ✓ Neonatal Pain Assessment and Management
- ✓ Pain Management: Assessment of Pain
- ✓ Pain Pathophysiology
- ✓ Pharmacological Management of Pediatric Pain

- ✓ Non-Pharmacological Therapies in the Management of Pediatric Pain
- ✓ Pain Technologies: PCA & Epidural Analgesia
- ✓ Procedural Sedation in the Pediatric Patient

System-Focused Emergencies

Respiratory

- ✓ Pediatric Assessment: The Respiratory System
- ✓ Basic Principles of Oxygen Therapy, Specialty Gases and Noninvasive Ventilation
- ✓ Introduction to Arterial Blood Gas Interpretation
- ✓ Understanding Abnormal Blood Gases
- ✓ Chest X-ray Interpretation
- ✓ Lower Airway Diseases
- ✓ Cystic Fibrosis
- ✓ Acute Respiratory Distress Syndrome
- ✓ Neonatal Respiratory Distress Syndrome
- ✓ Meconium Aspiration Syndrome
- ✓ Pediatric Sepsis
- ✓ Status Asthmaticus

- ✓ Nursing Management of Chest Tubes
- ✓ Respiratory Inhalation Medications
- ✓ Advanced Concepts in Respiratory Physiology
- ✓ Mechanical Ventilation: Introduction to Pediatric Practices
- ✓ Preventing Ventilator-Associated Pneumonia
- ✓ Caring for a Child with a Tracheostomy
- ✓ Caring for the Pediatric Patient in Shock
- ✓ Emergency Response for the Deteriorating Pediatric Patient
- ✓ Management of the Difficult Airway
- ✓ Pediatric Thoracic Trauma
- ✓ Rapid Sequence Intubation

Cardiovascular

- ✓ Arrhythmia Recognition: Just the Basics for the Pediatric Clinician
- ✓ Arrhythmia Recognition: Structure and Function of the Heart
- ✓ Arrhythmia Recognition: Electrophysiology
- ✓ Arrhythmia Recognition: The Cardiac Monitor
- ✓ Arrhythmia Recognition: Lines, Waves and Segments
- ✓ Arrhythmia Recognition: Analyzing the ECG Rhythm Strip
- ✓ Arrhythmia Recognition: Sinus
- ✓ Arrhythmia Recognition: Atrial
- ✓ Arrhythmia Recognition: Junctional
- ✓ Arrhythmia Recognition: Ventricular
- ✓ Arrhythmia Recognition: Atrioventricular Blocks
- ✓ Arrhythmia Recognition: Channelopathies
- ✓ Permanent Pacemakers and ICDs
- ✓ Acquired Heart Disease
- ✓ Congestive Heart Failure
- ✓ CHD: An Overview
- ✓ CHD: Increased Pulmonary Blood Flow
- ✓ CHD: Decreased Pulmonary Blood Flow
- ✓ CHD: Decreased Systemic Blood Flow
- ✓ Emergency Response for the Deteriorating Pediatric Patient
- ✓ Hemodynamic Monitoring
- ✓ *Introduction to ECMO
- ✓ Pediatric Assessment: The Cardiovascular System
- ✓ Pediatric Sepsis
- ✓ Caring for the Pediatric Patient in Shock
- ✓ Fluid and Electrolyte Management: Dehydration
- ✓ Fluid and Electrolyte Management: Replacement Therapy
- ✓ Vasoactive Medications
- ✓ Pediatric Thoracic Trauma
- ✓ Pediatric Peripheral IV Care & Management

Neurological

- ✓ Pediatric Assessment: The Neurological System
- ✓ Hydrocephalus
- ✓ Hypoxic Ischemic Encephalopathy
- ✓ Intracranial Pressure Monitoring and Management
- ✓ Meningitis and Encephalitis
- ✓ Neonatal Seizures
- ✓ Status Epilepticus
- ✓ Pediatric Stroke
- ✓ Pediatric Traumatic Brain Injury
- ✓ Pediatric Spinal Column/Cord Injuries
- ✓ Solid Tumors: Brain and Spine

Musculoskeletal

- ✓ Pediatric Assessment: Musculoskeletal System
- ✓ Pediatric Orthopedic Trauma
- ✓ Pediatric Spinal Column/Cord Injuries
- ✓ Preventing Pediatric Falls

Gastrointestinal

- ✓ Pediatric Assessment: The Gastrointestinal System
- ✓ Fluid and Electrolytes: Physiological Differences
- ✓ Fluid and Electrolytes: Laboratory Assessment
- ✓ Fluid and Electrolytes: Physical Assessment
- ✓ Fluid and Electrolytes Imbalance: Dehydration
- ✓ Fluid and Electrolytes: Replacement Therapy
- ✓ Fluid and Electrolytes: Water Intoxication and Fluid Shift
- ✓ *Esophageal Atresia and TE Fistula
- ✓ Necrotizing Enterocolitis
- ✓ *Pediatric Nutritional Overview
- ✓ *Neonatal Nutrition
- ✓ Abdominal Emergencies
- ✓ Pediatric Abdominal Trauma

Genitourinary

- ✓ Pediatric Assessment: The Genitourinary System
- ✓ Preventing Catheter-Associated Urinary Tract Infections
- ✓ Renal Failure in the Pediatric Patient
- ✓ Shiga Toxin-Producing Escherichia Coli-Associated Hemolytic Uremic Syndrome (STEC-HUS)

Maxillofacial, Ocular, and Ear/Nose/Throat (ENT)

- ✓ Pediatric Assessment: The Musculoskeletal System
- ✓ Management of the Difficult Airway
- ✓ Pediatric Orthopedic Trauma
- ✓ Pediatric Assessment: Performing a Head-to-Toe Assessment

Integumentary

- ✓ Pediatric Assessment: The Integumentary System
- ✓ Introduction to Pediatric Pressure Injuries
- ✓ Pressure Injuries in the Pediatric Population: Staging and Care
- ✓ Pressure Injuries Staging Assessment
- ✓ Pediatric Burns

Endocrine/Metabolic

- ✓ Diabetes Mellitus
- ✓ Diabetes Ketoacidosis
- ✓ Diabetes Insipidus and SIADH
- ✓ *Glucose Homeostasis in the Neonate
- ✓ Metabolic Disorders of the Newborn

Hematology/Oncology

- ✓ Anemia and Polycythemia in the Neonate
- ✓ Blood and Blood Components Administration
- ✓ Blood Components
- ✓ Blood Transfusion Reaction
- ✓ Blood Exchange Transfusion
- ✓ Disseminated Intravascular Coagulation
- ✓ Hemophilia: An Overview
- ✓ Hyperbilirubinemia

- ✓ Sickle Cell Crisis
- ✓ Thrombocytopenia: ITP and HIT/T
- ✓ Chemotherapy General Principles and Safety
- ✓ Oncologic Emergencies
- ✓ *Leukemia and Lymphoma
- ✓ Solid Tumors: Brain and Spine
- ✓ *Solid Tumors: Bone and Soft Tissue Sarcomas
- ✓ *Solid Tumors: Neuroblastoma, Liver, Kidney and Germ Cell Tumors

Special Considerations

Neonatal Emergencies

- ✓ Anemia and Polycythemia in the Neonate
- ✓ Apnea of Prematurity
- ✓ Comprehensive Assessment of the Neonate
- ✓ *Congenital Diaphragmatic Hernia
- ✓ *Esophageal Atresia and TE Fistula
- ✓ *Extrauterine Life: Fetal to Neonatal Circulation
- ✓ *Extrauterine Life: Assessment of the Neonate's Transition
- ✓ *Glucose Homeostasis in the Neonate
- ✓ Hydrocephalus
- ✓ Hyperbilirubinemia
- ✓ Hypoxic Ischemic Encephalopathy
- ✓ *Maternal Factors Affecting the Newborn
- ✓ Meconium Aspiration Syndrome
- ✓ Necrotizing Enterocolitis
- ✓ Neonatal Pain Assessment and Management
- ✓ Neonatal Pharmacokinetics
- ✓ Neonatal Seizures
- ✓ Neonatal Sepsis
- ✓ Metabolic Disorders of the Newborn
- ✓ Thermoregulation of the Newborn
- ✓ *Transient Tachypnea of the Newborn

Behavioral Emergencies

- ✓ Attention-Deficit/Hyperactivity Disorder (ADHD)
- ✓ Autism Spectrum Disorder (ASD)
- ✓ Care of the Pediatric Patient with Suicidal Ideation
- ✓ Caring for the Patient with Behavioral Challenges
- ✓ Crisis Prevention through Verbal and Nonverbal De-escalation Strategies
- ✓ Effective Use of Psychotropic Medications in the Prevention and Management of Disruptive Behaviors
- ✓ Oppositional Defiant Disorder (ODD)
- ✓ Pediatric Restraint and Seclusion
- ✓ Trauma-Informed Practice: Concepts, Goals and Principles
- ✓ Implementing Trauma-Informed Sensitive Practice
- ✓ Anxiety Disorders and Obsessive-Compulsive Disorder
- ✓ Eating Disorders
- ✓ Pediatric Mood Disorders
- ✓ Psychotic Disorders
- ✓ Trauma- and Stressor-Related Disorders

Environmental

- ✓ Thermoregulation of the Newborn Infant
- ✓ Caring for the Pediatric Patient in Shock
- ✓ Pediatric Burns

Maltreatment Emergencies

- ✓ Child Abuse and Neglect
- ✓ Intimate Partner Violence

Toxicology

- ✓ Pediatric Toxicology Exposure
- ✓ High Alert Medications
- ✓ Medication Error Reduction
- ✓ Pain Management: Pharmacological Management of Pediatric Pain

Communicable Diseases

- ✓ *Bloodborne Pathogens
- ✓ Management of MDROs in the Health Care Setting (Clinical)
- ✓ Tuberculosis

Multi-System Considerations

Post-Resuscitative Care

- ✓ Basic Principles of Oxygen Therapy, Specialty Gases and Noninvasive Ventilation
- ✓ Introduction to Arterial Blood Gas Interpretation
- ✓ Understanding Abnormal Blood Gases
- ✓ Chest X-ray Interpretation
- ✓ Arrhythmia Recognition & Care Management Series
- ✓ Mechanical Ventilation: Introduction to Pediatric Practices
- ✓ Preventing Ventilator-Associated Pneumonia
- ✓ Pain Management: Assessment of Pain
- ✓ Pharmacological Management of Pediatric Pain
- ✓ Non-Pharmacological Therapies in the Management of Pediatric Pain
- ✓ *Sedation and Analgesia in the ICU
- ✓ Blood and Blood Components Administration
- ✓ Blood Components
- ✓ Blood Transfusion Reaction
- ✓ Fluid and Electrolyte Management: Replacement Therapy
- ✓ Caring for the Pediatric Patient in Shock

Sepsis

- ✓ Neonatal Sepsis
- ✓ Pediatric Sepsis
- ✓ Caring for the Pediatric Patient in Shock

Anaphylaxis

- ✓ Caring for the Pediatric Patient in Shock
- ✓ Pediatric Toxicology Exposure
- ✓ Oncologic Emergencies

Procedural Sedation

- ✓ *Sedation and Analgesia in the ICU
- ✓ Effective Use of Psychotropic Medications in the Prevention and Management of Disruptive Behavior
- ✓ Procedural Sedation in the Pediatric Patient

Submersion Injuries

- ✓ Pediatric Drowning

Professional Issues

Legal Issues

- ✓ Healthcare Emergency Management
- ✓ EMTALA Overview
- ✓ HIPAA Overview
- ✓ Introduction to Ethics
- ✓ Child Abuse and Neglect
- ✓ Health Care Advance Directives: Communicating Wishes

Nursing Practice

- ✓ Implementing Trauma-Informed Sensitive Practice
- ✓ Family-Centered Care in the ICU
- ✓ *Precepting Adult Learners
- ✓ *Precepting: Preceptor Roles and Responsibilities
- ✓ *Workplace Violence
- ✓ Clinical Delegation
- ✓ Vicarious Trauma and Self Care

Patient and Family Considerations

- ✓ Child Abuse and Neglect
- ✓ Intimate Partner Violence
- ✓ Family-Centered Care in the ICU
- ✓ Health Care Advance Directives: Communicating Wishes
- ✓ Introduction to Ethics
- ✓ *Care of the Dying Child: Care Issues
- ✓ Care of the Dying Child: Grief
- ✓ Care of the Dying Child: The Dying Process
- ✓ Organ and Tissue Donation: The Gift of Life
- ✓ Therapeutic Relationships and Professional Behavior
- ✓ *Preventing Pediatric Falls