

International EMS Registry

IEMSR Certified Emergency Medical Responder



Assessment Plan
100 scored questions
Exam Time – 2 hours

This test plan provides an outline of the knowledge, skills and competencies assessed on the IEMSR-EMR Certification Exam. The occupational skills follow the National Emergency Medical Services Education Standards of Practice and the Emergency Medical Responder Instructional Guidelines from the U.S. Department of Transportation National Highway Traffic Safety Administration (NHTSA). Each standard, competency, and skill is specifically defined in the National EMS Education Standards at [ems.gov: https://www.ems.gov/pdf/811077b.pdf](https://www.ems.gov/pdf/811077b.pdf)

Summary EMR Certification Examination Outline

Domain (includes assessment, pathophysiology and management)	# of items on examination
1. Airway, Respiration and Ventilation	22
2. Cardiology and Resuscitation	21
3. Trauma	20
4. Medical, Obstetrics and Gynecology	20
5. Emergency Medical Services Operations	17
Total	100

Airway, Respiration and Ventilation
1. Applies knowledge and skills (fundamental depth, foundational breadth) of anatomy and physiology to assure a patent airway, adequate mechanical ventilation, and respiration while awaiting EMS response for patients of all ages.
2. Primary patient assessment, level of consciousness, patient response, airway status, breathing status, circulatory status, identifying life threats, assessment of vital functions and interventions needed to preserve life.
3. History taking, determining the chief complaint, taking vital signs, current patient conditions, major past illness, physical exam, emergency medical care given and response to care.
4. Transfer care of patient, communication concerning the patient and scene to receiving hospital, law enforcement and other responders and medical teams.
5. Measures skills addressing airway structure and function, how to maintain an open airway, pulmonary resuscitation, variations for infants and children, and patients with laryngectomies, use of airways, suction equipment, barrier devices, and management of foreign body airway obstructions.
6. Measures and evaluates developmental and psychomotor skills of airway care and use practical skills removing a foreign body airway obstruction.
Cardiology and Resuscitation
1. Applies knowledge and skills in basic life support, use of AED machines and first aid to patients of all ages, keeping active circulation in major organs and systems.
2. Application of knowledge and skills of chest compressions and ventilations for adults, children, and infants.

3. Evaluating level of achievement of the cognitive, psychomotor, and affective objectives of circulation.
4. Applies knowledge and review of the cardiovascular system, describes the care of the patient with internal and external bleeding, and the management of soft tissue injuries and burns, techniques of dressing and bandaging wounds.
5. Apply knowledge and skills using EKG equipment and assist with IV insertion and blood draws.
Trauma
1. Integrates health patient assessment knowledge and skills learned to continue with the management of patients with medical complaints and traumatic injuries.
2. Application of skills for medical emergencies, recognition and management of general medical complaints, seizures, altered mental status, environmental emergencies, behavioral emergencies, psychological crisis, and typical patient situations.
3. Applies knowledge and skills in anatomy of and injuries to the musculoskeletal system. Evaluates and presents information about injuries of the skeletal system and uses safety techniques.
4. Applies knowledge and skills of the anatomy of the nervous system and the skeletal system. Applies and initiate care of injuries to the spine and head, including the mechanism of injury, signs and symptoms of injury, and assessment.
5. Applies skills in assessing and managing patients with traumatic injuries.
6. Evaluates level of achievement of the cognitive, psychomotor, and affective objectives of illness and injuries on patients of all ages.
Medical, Obstetrics and Gynecology
1. Applies knowledge and skills reviewing the anatomical and physiological changes that occur during pregnancy. Demonstrates deliveries and newborn care.
2. Presents information concerning anatomical differences in infants and children, discusses common medical and trauma situations.
3. Applies knowledge and skills when interacting with infants and children, use knowledge and skills with special populations (children and childbirth).
4. Evaluates level of the cognitive, psychomotor, and affective objectives of childbirth and children.
5. Application of knowledge and skills assisting with labor and delivery in medical emergencies.
Emergency Medical Services Operations
1. Applies knowledge of the Emergency Medical Services (EMS) system, safety and well-being of the Emergency Medical Responder and EMS team members, medical and legal issues at the scene of an emergency while awaiting a higher level of care.
2. Emergency Medical Services System, Public Safety Access Points, National Scope of Practice, State Authorization to Practice, Roles, Responsibilities, and Professionalism of EMS Personnel.
2. Quality Improvement, Impact of Research on EMR Care, Conditions of Consent, Impaired cases of intoxication, serious injury or illness, legal and mental incompetence, refusal of care, emancipated minor, implied consent, confidentiality, HIPAA and Medical Practice Act.
3. Workforce Safety and Wellness, Standard Safety Precautions, Baseline Health Assessment, Hand washing, Adherence to Standard Precautions/OSHA Regulation, Safe Operation of EMS/Patient Care Equipment, Environmental Control, Occupational Health and Blood borne Pathogens (immunizations and sharps), access levels of training (EMR, EMT, Paramedic/RN, Firefighter, Emergency Medicine).
4. Applies knowledge and skills needed to function as an Emergency Medical Responder in the out-of-hospital environment, communities, beaches, and educational/ governmental institutions.
5. Extrication and rescue operations and information on hazardous materials, mass casualty situations, and basic triage.
6. Application of skills for Acts of Terrorism and similar chaotic events, natural disasters.
7. Applies knowledge and skills after each call, to restock and replace used supplies, clean all equipment following appropriate disinfecting procedures, and carefully checking all equipment to ensure availability for next response.