

## HealthCenter21: Emergency Medical Services Correlation to:

# 2009 National EMS Educational Standards for Emergency Medical Technician – EMT

## MODULES AND UNITS

### **Preparatory**

- EMS System
- EMS Providers: EMR and EMT
- Safety and Wellness
- Body Mechanics
- System Communication
- Documentation
- Therapeutic Communication
- Legal and Ethical Issues

### **Anatomy and Physiology**

- Intro to Anatomy and Physiology
- Respiratory System
- Cardiovascular System
- Skeletal System
- Muscular System
- Nervous System
- Digestive System
- Urinary System
- Reproductive System
- Endocrine System
- Integumentary System
- Lymphatic System
- Sensory System

### **Medical Terminology**

- Word Parts: Roots
- Word Parts: Suffixes and Prefixes
- Abbreviations
- Anatomic References

### **Pharmacology**

- Pharmacology

### **Airway**

- Airway Management
- Artificial Ventilation
- Respiration Management

### **Patient Assessment**

- Scene Size-up
- Primary Assessment
- History Taking
- Vital Signs
- Secondary Trauma Assessment
- Secondary Medical Assessment
- Monitoring Devices
- Reassessment

### **Shock and Resuscitation**

- Shock
- Resuscitation
- Basic Adult CPR
- Pediatric CPR
- Airway Obstructions

### **Medical**

- Infectious Diseases
- Respiratory Emergencies
- Cardiac Emergencies
- Acute Abdominal Pain
- Neurological Emergencies
- Diabetic Emergencies
- Behavioral Emergencies
- Allergic Reactions
- Poisoning Emergencies
- Genitourinary and Gynecological

### **Trauma**

- Bleeding
- Soft Tissue Trauma
- Chest Trauma
- Abdominal and Genitourinary Trauma
- Orthopedic Trauma
- Head, Face, and Neck Trauma
- Spinal Trauma
- Environmental Trauma
- Multi-System Trauma
- Trauma Considerations

### **Special Populations**

- Obstetrics
- Pediatrics
- Geriatrics
- Special Challenges

### **EMS Operations**

- Ambulance Operations
- Air Medical
- Incident Management
- Multiple-Casualty Incidents
- Vehicle Extrication
- Hazardous Materials
- Terrorism and Disasters

### **Certification Preparation**

- Certification Preparation

**APPLIED EDUCATIONAL SYSTEMS, Inc.**

(800) 220-2175

[www.aeseducation.com](http://www.aeseducation.com)

## Overview

This document demonstrates the correlation between the HealthCenter21: Emergency Medical Services curriculum supplied by Applied Educational Systems and the *2009 National EMS Educational Standards for Emergency Medical Technician – EMT*, published by the School Name Department of Education. The content areas are listed across the top row of the chart. The marks in the columns indicate that the standard is supported as part of the HealthCenter21 course.

Source for standards listed on the following pages:

National Highway Traffic Safety Administration. *National Emergency Medical Services Education Standards*. 2009 <[www.ems.gov](http://www.ems.gov)>.

2009 National EMS Educational Standards for EMT Provider	HC21: Emergency Medical Services	Preparatory	Anatomy and Physiology	Medical Terminology	Pharmacology	Airway	Patient Assessment	Shock and Resuscitation	Medical	Trauma	Special Populations	EMS Operations	Certification Preparation
<b>Preparatory</b>													
Applies fundamental knowledge of the EMS system, safety/well being of the EMT, medical/legal and ethical issues to the provision of emergency care.	Ü	X											
<b>EMS Systems</b>													
EMS Systems	Ü	X											
History of EMS	Ü	X											
Roles/responsibilities/professionalism of EMS personnel	Ü	X											
Quality improvement	Ü	X											
Patient safety	Ü	X											
<b>Research</b>													
Impact of research on EMR care	Ü	X											
Data collection	Ü	X											

2009 National EMS Educational Standards for EMT Provider	HC21: Emergency Medical Services	Preparatory	Anatomy and Physiology	Medical Terminology	Pharmacology	Airway	Patient Assessment	Shock and Resuscitation	Medical	Trauma	Special Populations	EMS Operations	Certification Preparation
Evidence-based decision making	Ü	X											
<b>Workforce Safety and Wellness</b>													
Standard safety precautions	Ü	X							X	X			
Personal protective equipment	Ü	X											
Stress management	Ü	X											
Dealing with death and dying	Ü	X											
Prevention of work-related injuries	Ü	X											
Lifting and moving patients	Ü	X											
Disease transmission	Ü	X							X				
Wellness principles	Ü	X											

2009 National EMS Educational Standards for EMT Provider	HC21: Emergency Medical Services	Preparatory	Anatomy and Physiology	Medical Terminology	Pharmacology	Airway	Patient Assessment	Shock and Resuscitation	Medical	Trauma	Special Populations	EMS Operations	Certification Preparation
<b>Documentation</b>													
Recording patient findings	ü	X											
Principles of medical documentation and report writing	ü	X											
<b>EMS System Communication</b>													
EMS communication system	ü	X											
Communication with other health care professionals	ü	X											
Team communication and dynamics	ü	X											
<b>Therapeutic Communication</b>													
Principles of communicating with patients in a manner that achieves a positive relationship	ü	X											
Adjusting communication strategies for age, stage of development, patients with special needs, and differing cultures	ü	X											
Interviewing techniques	ü	X											

2009 National EMS Educational Standards for EMT Provider	HC21: Emergency Medical Services	Preparatory	Anatomy and Physiology	Medical Terminology	Pharmacology	Airway	Patient Assessment	Shock and Resuscitation	Medical	Trauma	Special Populations	EMS Operations	Certification Preparation
Verbal defusing strategies	Ü	X											
Family presence issues	Ü	X											
<b>Medical/Legal and Ethics</b>													
Consent/refusal of care	Ü	X											
Confidentiality	Ü	X											
Advanced directives	Ü	X											
Tort and criminal actions	Ü	X											
Evidence preservation	Ü	X											
Statutory responsibilities	Ü	X											
Mandatory responsibilities	Ü	X											
Ethical principles/moral obligations	Ü	X											
End of life issues	Ü	X											

2009 National EMS Educational Standards for EMT Provider	HC21: Emergency Medical Services	Preparatory	Anatomy and Physiology	Medical Terminology	Pharmacology	Airway	Patient Assessment	Shock and Resuscitation	Medical	Trauma	Special Populations	EMS Operations	Certification Preparation
<b>Anatomy and Physiology</b>													
Applies fundamental knowledge of the anatomy and function of all human systems to the practice of EMS.	ü		X										
<b>Medical Terminology</b>													
Uses foundational anatomical and medical terms and abbreviations in written and oral communication with colleagues and other health care professionals.	ü			X									
<b>Pathophysiology</b>													
Applies fundamental knowledge of the pathophysiology of respiration and perfusion to patient assessment and management.	ü					X		X					
<b>Life Span Development</b>													
Uses fundamental knowledge of life span development to patient assessment and management.	ü							X	X	X	X		
<b>Public Health</b>													
Uses simple knowledge of the principles of illness and injury prevention to emergency care.													

2009 National EMS Educational Standards for EMT Provider	HC21: Emergency Medical Services	Preparatory	Anatomy and Physiology	Medical Terminology	Pharmacology	Airway	Patient Assessment	Shock and Resuscitation	Medical	Trauma	Special Populations	EMS Operations	Certification Preparation
<b>Pharmacology</b>													
<b>Applies fundamental knowledge of the medications that the EMT may assist/administer to a patient during an emergency.</b>	Ü				X								
<b>Principles of Pharmacology</b>													
Medication safety	Ü				X								
Kinds of medications used during an emergency	Ü				X								
<b>Medication Administration</b>													
Within the scope of practice of the EMT, how to self-administer and peer-administer medication	Ü											X	
Within the scope of practice of the EMR, how to assist/administer medications to a patient	Ü				X				X				
<b>Emergency Medications</b>													
Within the scope of practice of the EMT, names, actions, indications, contraindications, complications, routes of administration, side effects, interactions, dosages for the medications administered	Ü				X								

2009 National EMS Educational Standards for EMT Provider	HC21: Emergency Medical Services	Preparatory	Anatomy and Physiology	Medical Terminology	Pharmacology	Airway	Patient Assessment	Shock and Resuscitation	Medical	Trauma	Special Populations	EMS Operations	Certification Preparation
<b>Airway Management, Respiration and Artificial Ventilation</b>													
<b>Applies Knowledge of anatomy and physiology to patient assessment and management in order to assure a patent airway, adequate mechanical ventilation, and respiration while awaiting additional EMS response for patients of all ages.</b>	Ü		X			X							
<b>Airway Management</b>													
Airway anatomy	Ü					X							
Airway assessment	Ü					X							
Techniques of assuring a patent airway	Ü					X							
<b>Respiration</b>													
Anatomy of the respiratory system	Ü		X										
Physiology and pathophysiology of respiration	Ü		X			X							
Pulmonary ventilation	Ü					X							
Oxygenation	Ü					X							

2009 National EMS Educational Standards for EMT Provider	HC21: Emergency Medical Services	Preparatory	Anatomy and Physiology	Medical Terminology	Pharmacology	Airway	Patient Assessment	Shock and Resuscitation	Medical	Trauma	Special Populations	EMS Operations	Certification Preparation
Respiration	Ü					X							
External	Ü					X							
Internal	Ü					X							
Cellular	Ü					X							
<b>Artificial Ventilation</b>													
Assessment and management of adequate and inadequate ventilation	Ü					X							
Artificial ventilation	Ü					X							
Minute ventilation	Ü					X							
Alveolar ventilation	Ü					X							
Effect of artificial ventilation on cardiac output	Ü					X							

2009 National EMS Educational Standards for EMT Provider	HC21: Emergency Medical Services	Preparatory	Anatomy and Physiology	Medical Terminology	Pharmacology	Airway	Patient Assessment	Shock and Resuscitation	Medical	Trauma	Special Populations	EMS Operations	Certification Preparation
<b>Assessment</b>													
Applies scene information and patient assessment findings (scene size up, primary and secondary assessment, patient history, and reassessment) to guide emergency management.	Ü						X						
<b>Scene Size Up</b>													
Scene safety	Ü						X						
Scene management	Ü						X						
Impact of the environment on patient care	Ü						X						
Addressing hazards	Ü						X						
Violence	Ü						X						
Need for additional or specialized resources	Ü						X						
Standard precautions	Ü						X						
Multiple patient situations	Ü						X						

2009 National EMS Educational Standards for EMT Provider	HC21: Emergency Medical Services	Preparatory	Anatomy and Physiology	Medical Terminology	Pharmacology	Airway	Patient Assessment	Shock and Resuscitation	Medical	Trauma	Special Populations	EMS Operations	Certification Preparation
<b>Primary Assessment</b>													
Primary assessment for all patient situations	Ü						X						
Initial general impression	Ü						X						
Level of consciousness	Ü						X						
ABCs	Ü						X						
Identifying life threats	Ü						X						
Assessment of vital functions	Ü						X						
Integration of treatment/procedures needed to preserve life.	Ü						X						
<b>History Taking</b>													
Investigation of the chief complaint	Ü						X						
Mechanism of injury/nature of illness	Ü						X						

2009 National EMS Educational Standards for EMT Provider	HC21: Emergency Medical Services	Preparatory	Anatomy and Physiology	Medical Terminology	Pharmacology	Airway	Patient Assessment	Shock and Resuscitation	Medical	Trauma	Special Populations	EMS Operations	Certification Preparation
Past medical history	Ü						X						
Associated signs and symptoms	Ü						X						
Pertinent negatives	Ü						X						
<b>Secondary Assessment</b>													
Performing a rapid full body scan	Ü						X						
Focused assessment of pain	Ü						X						
Assessment of vital signs	Ü						X						
Techniques of physical examination	Ü						X						
Respiratory system	Ü						X						
Presence of breath sounds	Ü						X						
Cardiovascular system	Ü						X						

2009 National EMS Educational Standards for EMT Provider	HC21: Emergency Medical Services	Preparatory	Anatomy and Physiology	Medical Terminology	Pharmacology	Airway	Patient Assessment	Shock and Resuscitation	Medical	Trauma	Special Populations	EMS Operations	Certification Preparation
Neurological system	Ü						X						
Musculoskeletal system	Ü						X						
All anatomical regions	Ü						X						
<b>Monitoring Devices</b>													
Within the scope of practice of the EMT, obtain and use information from patient monitoring devices including (but not limited to) pulse oximetry and non-invasive blood pressure.	Ü						X						
<b>Reassessment</b>													
How and when to perform a reassessment for all patient situations	Ü						X						
<b>Medicine</b>													
<b>Applies fundamental knowledge to provide basic emergency care and transportation based on assessment findings for an acutely ill patient.</b>	Ü							X	X				
<b>Medical Overview</b>													
Assessment and management of a medical complaint to include transport mode and destination decisions	Ü						X						

2009 National EMS Educational Standards for EMT Provider	HC21: Emergency Medical Services	Preparatory	Anatomy and Physiology	Medical Terminology	Pharmacology	Airway	Patient Assessment	Shock and Resuscitation	Medical	Trauma	Special Populations	EMS Operations	Certification Preparation
<b>Neurology</b>													
Anatomy, physiology, pathophysiology, assessment and management of stroke/transient ischemic attack.	ü								X				
Anatomy, physiology, pathophysiology, assessment and management of seizure.	ü								X				
Anatomy, physiology, pathophysiology, assessment and management of status epilepticus	ü								X				
Anatomy, physiology, pathophysiology, assessment and management of headache.	ü								X				
<b>Abdominal and Gastrointestinal Disorders</b>													
Anatomy, physiology, pathophysiology, assessment, and management of acute and chronic gastrointestinal hemorrhage	ü								X				
Peritonitis	ü								X				
Ulcerative disease	ü								X				
<b>Immunology</b>													
Anatomy, physiology, pathophysiology, assessment, and management of hypersensitivity disorders and/or emergencies, including anaphylactic reactions	ü								X				

2009 National EMS Educational Standards for EMT Provider	HC21: Emergency Medical Services	Preparatory	Anatomy and Physiology	Medical Terminology	Pharmacology	Airway	Patient Assessment	Shock and Resuscitation	Medical	Trauma	Special Populations	EMS Operations	Certification Preparation
<b>Infectious Diseases</b>													
Assessment and management of a patient who may have an infectious disease	ü								X				
Assessment and management of decontaminating the ambulance and equipment after treating a patient	ü								X				
<b>Endocrine Disorders</b>													
Awareness that diabetic emergencies cause altered mental status	ü								X				
Anatomy, physiology, pathophysiology, assessment and management of acute diabetic emergencies	ü								X				
<b>Psychiatric</b>													
Basic principles of the mental health system	ü								X				
Recognition of behaviors that pose a risk to the EMR, patient or others	ü								X				
Assessment and management of acute psychosis	ü								X				
Assessment and management of suicidal risk	ü								X				

2009 National EMS Educational Standards for EMT Provider	HC21: Emergency Medical Services	Preparatory	Anatomy and Physiology	Medical Terminology	Pharmacology	Airway	Patient Assessment	Shock and Resuscitation	Medical	Trauma	Special Populations	EMS Operations	Certification Preparation
Assessment and management of agitated delirium	Ü								X				
<b>Cardiovascular</b>													
Anatomy, signs, symptoms and management of chest pain	Ü								X				
Anatomy, signs, symptoms and management of cardiac arrest	Ü							X	X				
Anatomy, physiology, pathophysiology, assessment, and management of acute coronary syndrome, including angina pectoris and myocardial infarction.	Ü								X				
Anatomy, physiology, pathophysiology, assessment, and management of aortic aneurysm/dissection	Ü								X				
Anatomy, physiology, pathophysiology, assessment, and management of thromboembolism	Ü								X				
Heart failure	Ü								X				
Hypertensive emergencies	Ü								X				
<b>Toxicology</b>													
Recognition and management of carbon monoxide poisoning	Ü								X				

2009 National EMS Educational Standards for EMT Provider	HC21: Emergency Medical Services	Preparatory	Anatomy and Physiology	Medical Terminology	Pharmacology	Airway	Patient Assessment	Shock and Resuscitation	Medical	Trauma	Special Populations	EMS Operations	Certification Preparation
Recognition and management of nerve agent poisoning	Ü								X				
How and when to contact a poison control center	Ü								X				
Anatomy, physiology, pathophysiology, assessment, and management of inhaled poisons	Ü								X				
Anatomy, physiology, pathophysiology, assessment, and management of ingested poisons	Ü								X				
Anatomy, physiology, pathophysiology, assessment, and management of injected poisons	Ü								X				
Anatomy, physiology, pathophysiology, assessment, and management of absorbed poisons	Ü								X				
Anatomy, physiology, pathophysiology, assessment, and management of alcohol intoxication and withdrawal	Ü								X				
<b>Respiratory</b>													
Anatomy, physiology, pathophysiology, assessment, and management of epiglottitis	Ü								X				
Anatomy, physiology, pathophysiology, assessment, and management of spontaneous pneumothorax	Ü								X				
Anatomy, physiology, pathophysiology, assessment, and management of pulmonary edema	Ü								X				

2009 National EMS Educational Standards for EMT Provider	HC21: Emergency Medical Services	Preparatory	Anatomy and Physiology	Medical Terminology	Pharmacology	Airway	Patient Assessment	Shock and Resuscitation	Medical	Trauma	Special Populations	EMS Operations	Certification Preparation
Anatomy, physiology, pathophysiology, assessment, and management of asthma	Ü								X				
Anatomy, physiology, pathophysiology, assessment, and management of chronic obstructive pulmonary disease	Ü								X				
Anatomy, physiology, pathophysiology, assessment, and management of environmental/industrial exposure	Ü								X				
Anatomy, physiology, pathophysiology, assessment, and management of toxic gas	Ü								X				
Anatomy, physiology, pathophysiology, assessment, and management of pertussis	Ü								X				
Anatomy, physiology, pathophysiology, assessment, and management of cystic fibrosis	Ü								X				
Anatomy, physiology, pathophysiology, assessment, and management of pulmonary embolism	Ü								X				
Anatomy, physiology, pathophysiology, assessment, and management of pneumonia	Ü								X				
Anatomy, physiology, pathophysiology, assessment, and management of viral respiratory infections	Ü								X				
<b>Hematology</b>													
Anatomy, physiology, pathophysiology, assessment, and management of sickle cell crisis	Ü		X										

HealthCenter21 – Emergency Medical Services Correlation to: 2009 National EMS Educational Standards for EMT Provider

2009 National EMS Educational Standards for EMT Provider	HC21: Emergency Medical Services	Preparatory	Anatomy and Physiology	Medical Terminology	Pharmacology	Airway	Patient Assessment	Shock and Resuscitation	Medical	Trauma	Special Populations	EMS Operations	Certification Preparation
Anatomy, physiology, pathophysiology, assessment, and management of clotting disorders	Ü		X										
<b>Genitourinary/Renal</b>													
Blood pressure assessment in hemodialysis patients	Ü								X				
Anatomy, physiology, pathophysiology, assessment, and management of renal dialysis	Ü								X				
Anatomy, physiology, pathophysiology, assessment, and management of urinary catheter management (not insertion)	Ü								X				
Anatomy, physiology, pathophysiology, assessment, and management of kidney stones	Ü								X				
<b>Gynecology</b>													
Recognition and management of shock associated with vaginal bleeding	Ü								X				
Anatomy, physiology, pathophysiology, assessment, and management of vaginal bleeding	Ü								X				
Anatomy, physiology, pathophysiology, assessment, and management of sexual assault	Ü								X				
Anatomy, physiology, pathophysiology, assessment, and management of infections	Ü								X				

2009 National EMS Educational Standards for EMT Provider	HC21: Emergency Medical Services	Preparatory	Anatomy and Physiology	Medical Terminology	Pharmacology	Airway	Patient Assessment	Shock and Resuscitation	Medical	Trauma	Special Populations	EMS Operations	Certification Preparation
<b>Non-Traumatic Musculoskeletal Disorders</b>													
Anatomy, physiology, pathophysiology, assessment, and management of non-traumatic fractures	Ü									X	X		
<b>Diseases of the Eyes, Ears, Nose, and Throat</b>													
Recognition and management of nose bleed	Ü									X			
<b>Shock and Resuscitation</b>													
Applies a fundamental knowledge of the causes, pathophysiology, and management of shock, respiratory failure or arrest, cardiac failure or arrest, and post resuscitation management.	Ü							X					
<b>Trauma</b>													
Applies fundamental knowledge to provide basic emergency care and transportation based on assessment findings for an acutely injured patient.	Ü						X			X			
<b>Trauma Overview</b>													
Pathophysiology, assessment, and management of the trauma patient	Ü						X						
Trauma scoring	Ü						X						

2009 National EMS Educational Standards for EMT Provider	HC21: Emergency Medical Services	Preparatory	Anatomy and Physiology	Medical Terminology	Pharmacology	Airway	Patient Assessment	Shock and Resuscitation	Medical	Trauma	Special Populations	EMS Operations	Certification Preparation
Rapid transport and destination issues	Ü						X						
Transport mode	Ü						X						
<b>Bleeding</b>													
Pathophysiology, assessment, and management of bleeding	Ü									X			
<b>Chest Trauma</b>													
Pathophysiology, assessment and management of blunt vs. penetrating mechanisms	Ü									X			
Recognition and management of open chest wound	Ü									X			
Recognition and management of impaled objects	Ü									X			
Pathophysiology, assessment and management of hemothorax	Ü									X			
Pathophysiology, assessment and management of pneumothorax	Ü									X			
Open	Ü									X			

2009 National EMS Educational Standards for EMT Provider	HC21: Emergency Medical Services	Preparatory	Anatomy and Physiology	Medical Terminology	Pharmacology	Airway	Patient Assessment	Shock and Resuscitation	Medical	Trauma	Special Populations	EMS Operations	Certification Preparation
Simple	C									X			
Tension	C									X			
Pathophysiology, assessment and management of cardiac tamponade	C									X			
Pathophysiology, assessment and management of rib fractures	C									X			
Pathophysiology, assessment and management of flail chest	C									X			
Pathophysiology, assessment and management of commotio cordis	C									X			
<b>Abdominal and Genitourinary Trauma</b>													
Recognition and management of blunt vs. penetrating mechanisms	C									X			
Recognition and management of evisceration	C									X			
Recognition and management of impaled object	C									X			

2009 National EMS Educational Standards for EMT Provider	HC21: Emergency Medical Services	Preparatory	Anatomy and Physiology	Medical Terminology	Pharmacology	Airway	Patient Assessment	Shock and Resuscitation	Medical	Trauma	Special Populations	EMS Operations	Certification Preparation
<b>Orthopedic Trauma</b>													
Pathophysiology, assessment, and management of upper and lower extremity orthopedic trauma	Ü									X			
Pathophysiology, assessment, and management of open fractures	Ü									X			
Pathophysiology, assessment, and management of closed fractures	Ü									X			
Pathophysiology, assessment, and management of of dislocations	Ü									X			
Pathophysiology, assessment, and management of sprains/strains	Ü									X			
Pathophysiology, assessment, and management of pelvic fractures	Ü									X			
Pathophysiology, assessment, and management of amputations/replantation	Ü									X			
<b>Soft Tissue Trauma</b>													
Pathophysiology, assessment, and management of wounds	Ü									X			
Avulsions	Ü									X			

2009 National EMS Educational Standards for EMT Provider	HC21: Emergency Medical Services	Preparatory	Anatomy and Physiology	Medical Terminology	Pharmacology	Airway	Patient Assessment	Shock and Resuscitation	Medical	Trauma	Special Populations	EMS Operations	Certification Preparation
Bite wounds	C									X			
Lacerations	C									X			
Puncture wounds	C									X			
Incisions	C									X			
Pathophysiology, assessment, and management of burns	C									X			
Electrical	C									X			
Chemical	C									X			
Thermal	C									X			
Radiation	C									X			
Recognition and management of chemicals in the eye and on the skin	C									X			
Crush syndrome	C									X			

2009 National EMS Educational Standards for EMT Provider	HC21: Emergency Medical Services	Preparatory	Anatomy and Physiology	Medical Terminology	Pharmacology	Airway	Patient Assessment	Shock and Resuscitation	Medical	Trauma	Special Populations	EMS Operations	Certification Preparation
<b>Head, Facial, Neck, and Spine Trauma</b>													
Recognition and management of life threats	Ü									X			
Pathophysiology, assessment, and management of penetrating neck trauma	Ü									X			
Pathophysiology, assessment, and management of laryngotracheal injuries	Ü									X			
Pathophysiology, assessment, and management of spine trauma	Ü									X			
Facial fractures	Ü									X			
Skull fractures	Ü									X			
Foreign bodies in th eyes	Ü									X			
Dental trauma	Ü									X			
<b>Nervous System Trauma</b>													
Pathophysiology, assessment, and management of traumatic brain injury	Ü									X			

2009 National EMS Educational Standards for EMT Provider	HC21: Emergency Medical Services	Preparatory	Anatomy and Physiology	Medical Terminology	Pharmacology	Airway	Patient Assessment	Shock and Resuscitation	Medical	Trauma	Special Populations	EMS Operations	Certification Preparation
Pathophysiology, assessment, and management of spinal cord injury	Ü									X			
<b>Special Considerations in Trauma</b>													
Pathophysiology, assessment, and management of trauma in the pregnant patient	Ü										X		
Pathophysiology, assessment, and management of trauma in the pediatric patient	Ü										X		
Pathophysiology, assessment, and management of trauma in the geriatric patient	Ü										X		
Pathophysiology, assessment, and management of trauma in the cognitively impaired patient	Ü										X		
<b>Environmental Emergencies</b>													
Pathophysiology, assessment, and management of near drowning	Ü									X			
Pathophysiology, assessment, and management of temperature-related illness	Ü									X			
Pathophysiology, assessment, and management of bites and envenomations	Ü									X			
Pathophysiology, assessment, and management of dysbarism	Ü									X			

2009 National EMS Educational Standards for EMT Provider	HC21: Emergency Medical Services	Preparatory	Anatomy and Physiology	Medical Terminology	Pharmacology	Airway	Patient Assessment	Shock and Resuscitation	Medical	Trauma	Special Populations	EMS Operations	Certification Preparation
High-altitude	Ü									X			
Diving injuries	Ü									X			
Pathophysiology, assessment, and management of electrical injury	Ü									X			
Pathophysiology, assessment, and management of radiation exposure	Ü									X			
<b>Multi-System Trauma</b>													
Pathophysiology, assessment, and management of multi-system trauma	Ü									X			
Pathophysiology, assessment, and management of blast injuries	Ü									X			
<b>Special Patient Populations</b>													
<b>Applies a fundamental knowledge of growth, development, and aging and assessment findings to provide basic emergency care and transportation for a patient with special needs.</b>	Ü										X		
<b>Obstetrics</b>													
Anatomy and physiology of normal pregnancy	Ü										X		

HealthCenter21 – Emergency Medical Services Correlation to: 2009 National EMS Educational Standards for EMT Provider

2009 National EMS Educational Standards for EMT Provider	HC21: Emergency Medical Services	Preparatory	Anatomy and Physiology	Medical Terminology	Pharmacology	Airway	Patient Assessment	Shock and Resuscitation	Medical	Trauma	Special Populations	EMS Operations	Certification Preparation
Pathophysiology of complications of pregnancy	C										X		
Assessment of the pregnant patient	C										X		
Management of normal delivery	C										X		
Management of abnormal delivery	C										X		
Nuchal cord	C										X		
Prolapsed cord	C										X		
Breech delivery	C										X		
Management of third trimester bleeding	C										X		
Placenta previa	C										X		
Abruptio placenta	C										X		
Management of abortion/miscarriage	C										X		

2009 National EMS Educational Standards for EMT Provider	HC21: Emergency Medical Services	Preparatory	Anatomy and Physiology	Medical Terminology	Pharmacology	Airway	Patient Assessment	Shock and Resuscitation	Medical	Trauma	Special Populations	EMS Operations	Certification Preparation
Management of ectopic pregnancy	☺										X		
Management of preeclampsia/eclampsia	☺										X		
<b>Neonatal Care</b>													
Assessment and management of newborn care	☺										X		
Assessment and management of neonatal resuscitation	☺										X		
<b>Pediatrics</b>													
Upper airway obstruction	☺										X		
Lower airway reactive disease	☺										X		
Respiratory distress/failure/arrest	☺										X		
Shock	☺										X		
Seizures	☺										X		

2009 National EMS Educational Standards for EMT Provider	HC21: Emergency Medical Services	Preparatory	Anatomy and Physiology	Medical Terminology	Pharmacology	Airway	Patient Assessment	Shock and Resuscitation	Medical	Trauma	Special Populations	EMS Operations	Certification Preparation
Sudden infant Death Syndrome	C										X		
Gastrointestinal disease	C										X		
<b>Geriatrics</b>													
Impact of age-related changes on assessment and care	C										X		
Cardiovascular diseases	C										X		
Respiratory diseases	C										X		
Neurological diseases	C										X		
Endocrine diseases	C										X		
Alzheimer's	C										X		
Dementia	C										X		

2009 National EMS Educational Standards for EMT Provider	HC21: Emergency Medical Services	Preparatory	Anatomy and Physiology	Medical Terminology	Pharmacology	Airway	Patient Assessment	Shock and Resuscitation	Medical	Trauma	Special Populations	EMS Operations	Certification Preparation
<b>Patients with Special Challenges</b>													
Healthcare implications of abuse	☺										X		
Healthcare implications of neglect	☺										X		
Healthcare implications of homelessness	☺										X		
Healthcare implications of poverty	☺										X		
Healthcare implications of bariatrics	☺										X		
Healthcare implications of technology dependent	☺										X		
Healthcare implications of hospice/terminally ill	☺										X		
Healthcare implications of tracheostomy care/dysfunction	☺										X		
Healthcare implications of homecare	☺										X		
Healthcare implications of sensory deficit/loss	☺										X		

2009 National EMS Educational Standards for EMT Provider	HC21: Emergency Medical Services	Preparatory	Anatomy and Physiology	Medical Terminology	Pharmacology	Airway	Patient Assessment	Shock and Resuscitation	Medical	Trauma	Special Populations	EMS Operations	Certification Preparation
Healthcare implications of developmental disability	Ü										X		
<b>EMS Operations</b>													
<b>Knowledge of operational roles and responsibilities to ensure safe patient, public, and personnel safety</b>	Ü											X	
<b>Principles of Safely Operating a Ground Ambulance</b>													
Risks and responsibilities of transport	Ü											X	
<b>Incident Management</b>													
Establish and work within the incident management system	Ü											X	
<b>Multiple Casualty Incidents</b>													
Triage	Ü											X	
Performing	Ü											X	
Re-Triage	Ü											X	

2009 National EMS Educational Standards for EMT Provider	HC21: Emergency Medical Services	Preparatory	Anatomy and Physiology	Medical Terminology	Pharmacology	Airway	Patient Assessment	Shock and Resuscitation	Medical	Trauma	Special Populations	EMS Operations	Certification Preparation
Destination decisions	Ü											X	
Post Traumatic and Cumulative Stress	Ü											X	
Resource management	Ü											X	
<b>Air Medical</b>													
Safe air medical operations	Ü											X	
Criteria for utilizing air medical response	Ü											X	
<b>Vehicle Extrication</b>													
Safe vehicle extrication	Ü											X	
Use of simple hand tools	Ü											X	

2009 National EMS Educational Standards for EMT Provider	HC21: Emergency Medical Services	Preparatory	Anatomy and Physiology	Medical Terminology	Pharmacology	Airway	Patient Assessment	Shock and Resuscitation	Medical	Trauma	Special Populations	EMS Operations	Certification Preparation
<b>Hazardous Materials</b>													
Risks and responsibilities of operating in a cold zone at a hazardous material or other special incident	ü											X	
<b>Terrorism and Disaster</b>													
Risks and responsibilities of operating on the scene of a natural or man made disaster	ü											X	