

Essential Content: AEMT

This section identifies the knowledge content considered essential for converting currently certified EMT – Intermediates (1985 Curriculum) to function as Advanced Emergency Medical Technicians once the *Education Standards* are implemented.

SECTION	CONTENT
Preparatory: EMS Systems	Patient safety; high risk activities; how errors happen; preventing errors, including medication administration safety (rights of drug administration)
Preparatory: Research	Importance of evidence-based decision making process
Preparatory: Therapeutic Communication	Contains section on required affective/behavioral characteristics
Preparatory: Medical, Legal, and Ethics	Morals, ethics and ethical conflicts
Anatomy and Physiology; Pathophysiology	Fundamental elements of the life support chain including oxygenation, perfusion, and the cellular environment; composition of ambient air; airway patency; respiratory compromise; ventilation/perfusion mismatch; perfusion and shock, blood volume; myocardial effectiveness; microcirculation; blood pressure; alterations in cellular metabolism
Airway Management, Respiration, and Oxygenation: All sections	Airway anatomy; airway assessment; techniques of assuring an open airway; age-related variation in airway anatomy; anatomy of the respiratory system; physiology of respiration; pathophysiology of respiration; assessment of respiratory status; respiratory management; supplemental oxygen therapy; age-related respiratory variation; assessment of ventilation status; oxygenation; ventilation management (adequate, inadequate, apneic); differentiating normal from positive pressure ventilation; age-related ventilation variation
Patient Assessment: All sections	Orientation to the new terminology (may be covered in a handout)
Patient Assessment: Monitoring Devices	Pulse oximetry
Medicine: Neurology	Stroke/TIA; stroke alert criteria
Medicine: Abdominal and Gastrointestinal Disorders	Anatomy; assessment; management; gastrointestinal bleeding, peritonitis, ulcerative disease, age-related variations
Medicine: Infectious Disease	Updated information on methicillin resistant <i>Staphylococcus aureus</i> (MRSA); human immunodeficiency virus (HIV); cleaning and disinfecting ambulance equipment; decontaminating ambulances

SECTION	CONTENT
Medicine: Endocrine Disorders	Diabetes update
Medicine: Psychiatric	Agitated delirium; medical/legal considerations; use of medical restraint
Medicine: Cardiovascular	Anatomy; physiology; pathophysiology; assessment; management; acute coronary syndrome; hypertensive emergencies; cardiogenic shock; aspirin administration
Medicine: Respiratory	Anatomy; assessment; management; specific respiratory conditions; metereddose inhalers; small volume nebulizers; ager-related variations
Medicine: Hematology	Sickle cell disease
Medicine: Genitourinary/Renal	Anatomy; physiology; pathophysiology; dialysis emergencies
Shock and Resuscitation	General shock; reasons for shock; mechanism of shock
Trauma: Overview	Become familiar with the Centers for Disease Control (CDC) Field Triage Decision Scheme: The National Trauma Triage Protocol
Trauma: Chest Trauma	Incidence; anatomy; physiology; pathophysiology; blunt or open trauma
Trauma: Abdominal and Genitourinary Trauma	Incidence; anatomy; physiology; specific injuries; assessment; management
Trauma: Head, Facial, Neck, and Spine Trauma	Assessment and management of neck, eye, dental; laryngeal injuries
Trauma: Nervous System Trauma	Traumatic brain injuries
Trauma: Special Considerations in Trauma	Trauma in pregnancy, elderly, and cognitively impaired
Special Patient Populations: Obstetrics	Complications of pregnancy
EMS Operations: Principles of Safely Operating a Ground Ambulance	Safety issues during transport
EMS Operations: Incident Management	Incident management system
EMS Operations: Hazardous Materials Awareness	Hazardous Waste Operations and Emergency Response (HAZWOPER) First Responder Awareness Level
EMS Operations: Mass Casualty Incidents Due to Terrorism and Disaster	Roles and responsibilities at the scene

For more in depth information see the National EMS Education Standards Transition Template:

<http://www.nasemso.org/EMSEducationImplementationPlanning/documents/I-85toAEMTJune2011.pdf>