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Emergency Medical Technician



Action Training System's **Emergency Medical Technician** series provides up-to-date, skill-based training that demonstrates assessment and care for a variety of medical and trauma related emergencies. The series teaches to the National EMS Education Standards (NEMSES) established by the U.S. Department of Transportation, with a focus on NREMT skills requirements. In addition, content supports popular EMT textbooks, and incorporates current standards and guidelines from agencies such as the Occupational Safety and Health administration (OSHA), the National Fire Protection Agency (NFPA), and the American Heart Association (AHA).

CECBEMS

Action Training Systems, Inc. has CECBEMS organizational accreditation and all EMS on-line courses are approved for one CEH.

Course Delivery Formats:

1. Online Interactive Course
2. Online Streamed Video
3. DVD

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TRT indicates Total Run Time for video only

1 - Scene Safety & Management **TRT: 21:54**

Program Description
Presents scene safety, including how to evaluate safety hazards, with an emphasis on injury prevention. Describes crowd control and patient protection. Presents techniques for scene control and management. Demonstrates how to manage specialized scenes, such as hazardous materials, high-risk terrain, weather extremes and crime scenes. Presents safe response to vehicle collisions, including how to safely respond to various types of collisions.

Training Objectives
1. To present factors for the evaluation of scene size-up
2. To demonstrate management for scenes with environmental hazards
3. To demonstrate management for scenes with hazardous materials
4. To demonstrate management for scenes with violence
5. To present considerations for safely responding to vehicle collisions

2 - Workforce Safety **TRT: 26:13**

Program Description
Presents infectious diseases and the pathogens that cause them. Describes how pathogens are transmitted. Demonstrates how to use standard precautions. Describes what to do if an exposure occurs. Demonstrates how to safely move and position patients and objects, including emergency, urgent and nonurgent moves. Demonstrates how to package a patient for transport. Demonstrates techniques for carrying a patient using a backboard and portable stretcher.

Training Objectives
1. To describe risks associated with pathogens
2. To demonstrate the proper use of standard precautions
3. To describe principles of moving patients
4. To demonstrate moving and positioning patients
5. To demonstrate packaging patients for transport

3 - Ambulance Operations & Air Medical **TRT: 23:41**

Program Description
Presents ambulance operations, including readiness preparations, call response procedures, patient transport and transfer, and call termination. Presents air medical services, including when and how to call for air medical. Demonstrates how to set up a landing zone, how to safely approach a helicopter and how to prepare and load a patient.

Training Objectives:
1. To demonstrate how to ready an ambulance for emergency response
2. To demonstrate emergency driving operations
3. To demonstrate how to prepare an ambulance after an emergency call is completed
4. To demonstrate how to utilize air medical response services

4 - Primary Assessment **TRT: 25:22**

Program Description
Presents primary assessment and describes its goals and steps. Demonstrates manual in-line stabilization, positioning the patient, and identifying immediate life threats. Presents assessment of a patient's level of consciousness. Demonstrates how to assess ABC's and determine the need for oxygen or positive-pressure ventilation. Describes how to determine whether to continue to secondary assessment or prepare the patient for immediate transport.

Training Objectives
1. To demonstrate the initial stages of primary assessment
2. To demonstrate assessment of airway status
3. To demonstrate assessment of breathing status
4. To demonstrate assessment of circulatory status
5. To present patient priority

5 - Secondary Assessment: Medical **TRT: 28:12**

Program Description
Presents secondary assessment for medical patients. Demonstrates how to assess baseline vital signs, including how to use monitoring devices. Presents how to take a patient history, including how to use SAMPLE and OPQRST. Demonstrates how to perform a secondary assessment for medical patients who are alert and oriented as well as patients who are disoriented, are responding only to verbal or painful stimuli or who are unresponsive. Presents the purposes and steps of reassessment.

Training Objectives
1. To present history-taking
2. To present secondary assessment techniques for medical patients
3. To demonstrate assessment of vital signs
4. To present the steps for performing reassessment

6 - Secondary Assessment: Trauma **TRT: 23:38**

Program Description
Presents secondary assessment for trauma patients. Describes mechanisms of injury, including those that raise a high index of suspicion for injury. Demonstrates the rapid secondary assessment and the modified secondary assessment. Presents transport considerations. Describes how to apply the Field Triage Decision Scheme: Trauma Triage Protocol, Glasgow Coma Scale and Revised Trauma Score.

Training Objectives:
1. To describe significant mechanisms of injury in adults and children
2. To demonstrate how to assess a patient's level of consciousness
3. To demonstrate secondary assessment techniques for trauma patients
4. To present guidelines for categorizing trauma patients

7 - Airway Management & Artificial Ventilation **TRT: 26:41**

Program Description
Presents airway management, including assuring a patent airway. Demonstrates head-tilt-chin-lift and the jaw-thrust maneuvers. Presents airway adjuncts and how to use them. Demonstrates how to apply artificial ventilation, including how to assemble and safely use a medical oxygen cylinder.

Training Objectives
1. To demonstrate methods of assuring a patent airway
2. To present how to clear an airway
3. To present portable oxygen cylinders
4. To demonstrate supplemental oxygen therapy

8 - Respiratory Compromise **TRT: 28:35**

Program Description
Presents respiratory compromise, including signs and symptoms of inadequate breathing in adult patients. Presents common respiratory emergencies and demonstrates how to assess and provide emergency medical care for respiratory compromise patients.

Training Objectives
1. To present inadequate breathing
2. To demonstrate how to recognize inadequate breathing
3. To present respiratory distress medications
4. To demonstrate how to assess and manage respiratory distress and respiratory failure

9 - Bleeding Emergencies **TRT: 23:00**

Program Description
Presents dressings, bandages and anti-shock garments and how to apply them. Presents how to identify and control three kinds of external bleeding, including through the use of direct pressure and tourniquets. Demonstrates how to provide emergency care for nosebleeds. Presents common causes of internal bleeding and their signs and symptoms. Describes factors that may increase bleeding, and how to determine severity and patient priority. Demonstrates emergency care for internal bleeding.

Training Objectives
1. To present dressings and bandages
2. To present the indications and use of the anti-shock garments
3. To describe the types of and care for external bleeding
4. To describe the causes and management of internal bleeding

10 - Shock **TRT: 19:11**

Program Description
Presents shock, including major categories, signs and symptoms and causes of shock. Describes the three stages of shock and how the body responds. Demonstrates how to assess and provide emergency medical care for patients in shock. Presents anaphylactic shock, including its common causes and signs and symptoms. Demonstrates how to provide emergency medical care for anaphylactic shock, including how to administer an epinephrine autoinjector.

Training Objectives
1. To present the causes of shock
2. To describe the signs and symptoms of shock
3. To demonstrate management of shock
4. To present and demonstrate care for anaphylactic shock

11 - Cardiovascular Emergencies **TRT: 25:22**

Program Description
Presents cardiac compromise and heart failure with congestion, including causes and signs and symptoms. Demonstrates how to assess cardiovascular emergencies and how to provide emergency care. Presents and demonstrates how to administer emergency medications including nitroglycerin and Aspirin. Demonstrates how to assist with and apply EKG monitoring devices.

Training Objectives
1. To present emergency medication and administration for cardiovascular emergencies
2. To demonstrate how to assess and provide emergency care for cardiac compromise and acute coronary syndrome
3. To demonstrate the application of EKG monitoring devices
4. To demonstrate how to assess and provide emergency care for heart failure with congestion

12 - Cardiopulmonary Resuscitation **TRT: 20:14**

Program Description
Presents current cardiovascular resuscitation methods, including how to perform one and two-person CPR on adults and children. Demonstrates how to maintain, apply, operate and analyze a semiautomated defibrillator. Presents how to transport patients with and without a pulse. Teaches to current CPR and Emergency Cardiovascular Care guidelines as determined by the AHA and ILCOR**.**

Training Objectives
1. To demonstrate how to perform CPR for adult patients
2. To demonstrate how to perform CPR for pediatric patients
3. To demonstrate how to perform automated external defibrillation

13 - Behavioral Emergencies **TRT: 21:00**

Program Description
Presents behavioral and psychiatric emergencies and their common causes. Describes safety factors and demonstrates how to assess and provide emergency care for suicidal, aggressive and violent patients. Presents alcohol and other substance abuse emergencies, including signs and symptoms and factors for identifying high-priority patients. Demonstrates emergency care for behavioral emergency patients, including presenting calming methods.

Training Objectives
1. To describe behavioral emergencies and their causes
2. To demonstrate assessment techniques for behavioral emergencies
3. To demonstrate how to respond to suicide risks
4. To demonstrate how to respond to substance abuse patients
5. To demonstrate calming methods and care for behavioral emergencies

14 - Neurological Emergencies **TRT: 27:31**

Program Description
Presents altered mental status, including its causes and signs and symptoms. Presents seizures and their causes. Demonstrates assessment and care of seizures, including signs and symptoms and the kind and stage of seizure involved. Describes ischemic and hemorrhagic stroke as well as transient ischemic attack and their causes. Demonstrates how to assess and provide emergency care for a stroke patient.

Training Objectives
1. To present causes, assessment and care for altered mental status
2. To present causes, assessment and care for seizure patients
3. To present causes, assessment and care for stroke patients

15 - Diabetic Emergencies **TRT: 24:54**

Program Description
Presents diabetic emergencies, including hypoglycemia and hyperglycemia. Demonstrates how to use a blood glucose meter, including how to prepare the meter, perform the procedure and interpret the results. Demonstrates how to provide emergency care for blood sugar emergency patients, including how to administer glucose.

Training Objectives:
1. To present diabetes mellitus
2. To present altered mental status in blood glucose emergency patients
3. To demonstrate how to use a blood glucose meter
4. To present and demonstrate the administration of oral glucose
5. To demonstrate assessment and management for hyperglycemia
6. To demonstrate assessment and management for hypoglycemia

16 - Poisoning Emergencies **TRT: 21:08**

Program Description
Presents poisons and poisoning emergencies and describes the four routes of exposure. Presents common poisoning incidents, and how to provide care for ingested poisons. Presents carbon monoxide poisoning, and includes signs and symptoms and how to provide emergency care. Demonstrates how to assess and provide emergency care for envenomation injuries, including insect bites, snakebites and marine life injuries.

Training Objectives:
1. To describe poisons and routes of exposure
2. To describe care for poisoning emergencies
3. To present assessment and care for carbon monoxide poisoning
4. To demonstrate how to assess and provide emergency care for envenomation injuries

17 - Cold & Heat Emergencies **TRT: 24:18**

Program Description
Presents cold and heat emergencies. Describes generalized hypothermia, its predisposing factors, stages of development and the body's compensatory mechanisms. Demonstrates emergency care for hypothermia. Describes local cold injuries and demonstrates how to provide emergency care for local cold injury patients, including how and when to institute both active and passive rewarming techniques. Presents hyperthermia, including heat cramps, heat exhaustion and heat stroke. Describes predisposing factors and demonstrates how to assess and provide emergency care for heat emergency patients**.**

Training Objectives:
1. To present and demonstrate emergency care for hypothermia
2. To present and demonstrate emergency care for local cold injuries
3. To describe hyperthermia
4. To demonstrate emergency care for heat emergencies

18 - Submersion & Diving Emergencies **TRT: 17:30**

Program Description
Presents submersion emergencies and describes safety considerations for submersion incidents. Demonstrates how to assess and provide emergency care for submersion victims, including both in and out of water. Demonstrates how to manage suspected spinal injury patients in the water. Presents SCUBA emergencies, including how to assess and provide emergency care for decompression sickness.

Training Objectives:
1. To present and demonstrate care for submersion emergencies
2. To present and demonstrate emergency care for spinal injuries in water
3. To present and demonstrate care for diving emergencies

19 - Obstetrics & Neonatal Care **TRT: 27:28**

Program Description
Presents emergencies particular to the obstetrical patient, including abdominal pain and bleeding. Presents the signs and stages of labor. Demonstrates how to prepare for and assist with childbirth. Demonstrates how to care for the mother and the neonate and how to assess and provide emergency care for pregnant trauma patients.

Training Objectives:

1. To describe how to assess and provide care for gynecological emergencies
2. To present the stages and assessment of labor
3. To demonstrate how to prepare for and assist with childbirth
4. To demonstrate how to provide care for the mother and neonate
5. To demonstrate how to assess and provide emergency care for pregnant trauma patients

20 - Pediatric Emergencies **TRT: 28:00**

Program Description
Presents modified assessment techniques and care for pediatric patients. Presents the signs and symptoms of common pediatric respiratory conditions and demonstrates emergency care for respiratory distress, respiratory arrest and airway obstructions. Demonstrates technique for insertion of an oropharyngeal airway. Demonstrates emergency care for pediatric trauma patients, including how to safety secure and transport pediatric patients in an ambulance.

Training Objectives:

1. To demonstrate pediatric patient assessment techniques
2. To demonstrate how to assess and provide care for pediatric respiratory emergencies
3. To describe transport considerations for pediatric patients
4. To demonstrate how to assess and provide emergency care for pediatric trauma patients

21 - Geriatric Emergencies **TRT: 18:05**

Program Description
Presents emergencies particular to the geriatric patient. Describes age-associated changes in geriatric patient systems and how care approaches must be adjusted when responding to and caring for an elderly patient. Demonstrates how to assess and provide emergency care for geriatric medical and trauma patients.

Training Objectives:

1. To present age-associated changes in geriatric patients
2. To demonstrate how to assess and provide care for geriatric emergencies
3. To demonstrate how to assess and provide care for geriatric trauma patients

22 - Abdominal Emergencies **TRT: 17:30**

Program Description
Describes different kinds of abdominal pain and conditions that can cause acute abdomen, including signs and symptoms of appendicitis, ectopic pregnancy, and gastrointestinal bleeding Demonstrates how to assess and care for acute abdomen and how to prioritize a patient for transport. Presents abdominal injuries and demonstrates how to assess and care for abdominal trauma, including general care as well as specialized care for abdominal evisceration.

Training Objectives:
1. To present assessment of acute abdominal emergencies
2. To demonstrate care for acute abdominal emergencies
3. To demonstrate how to assess and provide care for abdominal trauma

23 - Chest Trauma **TRT: 18:56**

Program Description
Presents chest trauma, including open and closed chest injuries and their common causes and mechanisms of injury. Describes flail chest, tension pneumothorax, cardiac contusion, hemothorax, pericardial tamponade and open pneumothorax. Demonstrates how to assess chest trauma and how to provide emergency care for chest injuries, including impaled objects in the chest.

Training Objectives:
1. To present common types of chest injuries
2. To demonstrate assessment and management of chest injuries
3. To present assessment and management of open pneumothorax
4. To demonstrate management of impaled objects in the chest

24 - Head Injuries **TRT: 19:31**

Program Description
Presents head trauma and the pathophysiology of traumatic brain injuries. Describes concussion, contusion, hematoma, laceration and diffuse axonal injury. Describes the signs and symptoms of head injury and demonstrates how to assess and provide care for head injury patients.

Training Objectives
1. To present types and causes of head injuries
2. To demonstrate emergency care for head injuries

25 - Orthopedic Emergencies **TRT: 27:06**

Program Description
Presents injuries to bones and joints, including their types, causes and complications. Demonstrates how to assess for orthopedic injuries. Presents signs and symptoms of extremity injuries. Presents immobilization and splinting techniques, including manual stabilization, realignment, long bone and joint splinting, pelvic wraps and traction splinting for femurs. Demonstrates care for orthopedic emergencies

Training Objectives:
1. To describe types and causes of orthopedic injuries
2. To demonstrate how to assess orthopedic injuries
3. To demonstrate immobilization techniques
4. To demonstrate care for orthopedic emergencies

26 - Soft Tissue Trauma **TRT: 26:50**

Program Description
Presents different types of open and closed soft tissue wounds and demonstrates how to assess and care for them. Presents penetrating injuries and demonstrates how to stabilize impaled objects. Demonstrates how to care for foreign bodies in the eye. Describes how to categorize and determine the severity and causes of burn injuries and demonstrates how to assess and provide care for thermal, chemical and electrical burns.

Training Objectives:
1. To describe and demonstrate care for closed wounds
2. To describe and demonstrate care for open wounds
3. To describe and demonstrate care for penetrating injuries, including impaled objects
4. To present care for a foreign body in the eye
5. To describe the classification, common causes and management of burn injuries

27 - Spine Injuries **TRT: 19:02**

Program Description
Presents spine injuries, including common mechanisms of injury. Demonstrates how to stabilize and immobilize patients using various techniques. Describes how to assess and provide emergency care for spinal cord injuries. Presents neurogenic shock. Demonstrates how to remove a helmet from a spine injury patient.

Training Objectives
1. To present the causes, signs and symptoms of spine injuries
2. To demonstrate how to stabilize the spine
3. To demonstrate how to assess and manage spine injuries
4. To demonstrate helmet removal

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Innovative Training Systems for Emergency Responders



National Emergency Medical Services Education Standards

NEMSES: Matrix & NREMT Skills

Emergency Medical Technician

Vol. #	EMT Title	Teaches to NEMSES for EMT & NREMT Skills
1.	Scene Safety & Management	**Preparatory:** *Workforce Safety and Wellness, Medical/Legal and Ethics* **Patient Assessment**: *Scene Size-up* **EMS Operations**: *Hazardous Materials Awareness*
2.	Workforce Safety	**Preparatory:** *Workforce Safety and Wellness* **Assessment:** *Scene Size-up*
3.	Ambulance Operations & Air Medical	**EMS Operations**: *Air Medical, Ground Ambulance operations*
4.	Primary Patient Assessment	**Assessment**: *Primary Assessment, History-Taking*
5.	Secondary Assessment: Medical	**Assessment**: *Secondary Assessment, Reassessment, Monitoring Devices* NREMT Skill: Medical Assessment
6.	Secondary Assessment: Trauma	**Assessment**: *Secondary Assessment, Reassessment* **EMS Operations**: *Multiple Casualty Incidents* NREMT Skill: Trauma Assessment
7.	Airway Management & Artificial Ventilation	**Airway Management, Respiration and Artificial Ventilation**: *Airway Management, Respiration, Artificial Ventilation* **Assessment**: *Primary Assessment, History-Taking* NREMT Skill: BVM Ventilation NREMT Skill: Supplemental Oxygen Administration NREMT Skill: Upper Airway Adjuncts & Suction
8.	Respiratory Compromise	**Pathophysiology**: **Medicine**: *Respiratory* **Airway Management, Respiration and Artificial Ventilation:** *Respiration, Artificial Ventilation*

Vol. #	EMT Title	Teaches to NEMSES for EMT & NREMT Skills
9.	Bleeding	**Trauma:** *Bleeding, Soft Tissue Trauma* NREMT Skill: Bleeding Control Shock Management
10.	Shock	**Shock and Resuscitation**: **Assessmen**t: *Primary Assessment* **Medicine:** *Immunology*
11.	Cardiovascular Emergencies	**Medicine**: *Cardiovascular* **Assessment**: *Monitoring Devices*
12.	Cardiopulmonary Resuscitation	**Shock and Resuscitation:** **Medicine**: *Cardiovascular* NREMT Skill: Cardiac Arrest AED
13.	Behavioral Emergencies	**Medicine:** *Psychiatric* **Assessment:** *Scene Size-up*
14.	Neurological Emergencies	**Medicine:** *Neurology* **Patient Assessment**: *Primary Assessment, History-Taking*
15.	Diabetic Emergencies	**Medicine:** *Endocrine Disorders,* **Assessment:** *Primary Assessment, History-Taking, Monitoring Devices*
16.	Poisoning Emergencies	**Medicine:** *Infectious Diseases, Toxicology* **Trauma:** *Environmental Emergencies*
17.	Cold & Heat Emergencies	**Trauma:** *Environmental Emergencies* **Assessment:** *Primary Assessment, History-Taking*
18.	Submersion & Diving Emergencies	**Trauma:** *Environmental Emergencies* **Trauma:** *Head, Facial, Neck and Spine Trauma* **Assessment:** *Primary Assessment, History-Taking*
19.	Obstetrics & Neonatal Care	**Medicine**: *Gynecology:* **Special Patient Populations***: Obstetrics, Neonatal Care* **Trauma:** Special Considerations in Trauma
20.	Pediatrics	**Special Patient Populations:** *Pediatrics, Patients With Special Challenges* **Preparatory:** *Medical/Legal and Ethics* **Trauma:** *Special Considerations in Trauma: Anatomy and Physiology* NREMT Skill: Pediatric Respiratory Compromise
21.	Geriatrics	**Special Patient Populations**: *Geriatrics, Patients With Special Challenges,* **Preparatory**: *Medical/Legal and Ethics* **Trauma**: *Special Considerations in Trauma*

Vol. #	EMT Title	Teaches to NEMSES for EMT & NREMT Skills
22.	Abdominal Emergencies	**Medicine**: *Abdominal & Gastrointestinal Disorders* **Trauma:** *Abdominal & Genitourinary Trauma* **Assessment:** *Primary Assessment, History-Taking*
23.	Chest Trauma	**Trauma:** *Chest Trauma, Bleeding*
24.	Head Injuries	**Trauma:** *Head, Facial, Neck and Spine Trauma* **Assessment:** *Primary Assessment, History-Taking*
25.	Orthopedic Trauma	**Trauma**: *Orthopedic Trauma* NREMT Skill: Joint Immobilization NREMT Skill: Long Bone Immobilization NREMT Skill: Joint Dislocation Immobilization NREMT Skill: Traction Splinting
26.	Soft Tissue Trauma	**Trauma:** *Soft Tissue Trauma*
27.	Spine Injuries	**Trauma: Head, Facial, Neck and Spine Trauma**. *Nervous system Trauma* **Assessment:** *Primary Assessment, History-Taking* NREMT Skill: Spinal Immobilization – Supine Patient NREMT Skill: Spinal Immobilization – Seated Patient