

Emergency Medical Technician (EMT)

Exam Information	Description
Exam number 5110 Items 100 National Career Cluster Human Services Certification available Yes	The Emergency Medical Technician (EMT) industry certification exam assesses the knowledge of emergency medical care skills in a job-related context based on the U.S. Department of Transportation (DOT) National Standard Curriculum. Learners demonstrate their ability to provide care for individuals with various traumatic and emergent medical conditions and their knowledge of skills in using medical equipment and materials.

Exam Blueprint and Performance Skills

Standard	Percentage of exam score
1. Preparatory	16%
2. Airway	14%
3. Patient Assessment	15%
4. Medical	23%
5. Respiratory System	16%
6. Infants & Children	10%
7. Operations	6%

*Includes performance skill evaluation

Standard 1 - Preparatory

Objective 1 Introduction to Emergency Medical Care

1. Define medical direction and discuss the EMT-Basic's role in the process.

Objective 2 Well-being of the EMT – Basic

1. Explain the need to determine scene safety.
2. List the personal protective equipment necessary for each of the following situations:
 - a. Hazardous materials
 - b. Rescue operations
 - c. Violent scenes
 - d. Crime scenes
 - e. Exposure to bloodborne pathogens
 - f. Exposure to airborne pathogens
3. Given a scenario with potential infectious exposure, the EMT-Basic will use appropriate personal protective equipment. At the completion of the scenario, the EMT-Basic will properly remove and discard the protective garments.
4. Given a scenario, the EMT-Basic will explain disinfection/cleaning and all reporting documentation.

Objective 3 Medical/Legal and Ethical Issues

1. Define the EMT-Basic scope of practice.
2. Discuss the implications for the EMT-Basic in-patient refusal of transport.
3. Discuss the issue of negligence and the implications to the EMT-Basic.
4. State the conditions necessary for the EMT-Basic to have a duty to act.

Objective 4 The Human Body

1. Describe the anatomy and physiology of the following major body systems:
 - a. Respiratory
 - b. Circulatory
 - c. Musculoskeletal
 - d. Nervous
 - e. Endocrine

Objective 5 Baseline Vital Signs and Sample History

1. Identify and explain each of the components of a patient's vital signs
2. Identify and explain the components of the SAMPLE history.
3. Differentiate between a sign and a symptom.
4. Explain the skills associated in the assessment of a complete set of vital signs.

Objective 6 Body mechanics

1. Explain the guidelines, safety precautions, and rationale for the proper lifting and moving of patients.
2. Working with a partner, prepare each of the following devices for use, transfer a patient to the device, properly position the patient on the device, move the device to the ambulance and load the patient into the ambulance:
 - a. Wheeled ambulance stretcher
 - b. Stair chair
 - c. Scoop stretcher
 - d. Long spine board

Optional: Standard performance evaluations on the final page of this document

Standard 2 - Airway

Objective 1 Airway

1. Relate mechanism of injury to opening the airway.
2. State the importance of having a suction unit ready for immediate use when providing emergency care.
3. Describe the signs of adequate artificial ventilation using the bag-valve mask.
4. Describe the signs of inadequate artificial ventilation using the bag-valve mask.
5. Explain the rationale for basic life support artificial ventilation and airway protective skills taking priority over most other basic life support skills.
6. Identify the steps in performing the head-tilt chin-lift.
7. Identify the steps in performing the jaw thrust.
8. Identify the techniques of suctioning.
9. Identify the steps in performing the skill of artificially ventilating a patient with a bag-valve-mask for one and two rescuers.
10. Identify the steps in performing the skill of artificially ventilating a patient with a bag-valve-mask while using the jaw thrust.
11. Explain how to artificially ventilate a patient with a flow restricted, oxygen- powered ventilation device.
12. Identify how to artificially ventilate a patient with a stoma.
13. Identify how to insert an oropharyngeal (oral) airway.
14. Identify how to insert a nasopharyngeal (nasal) airway.
15. Identify how to artificially ventilate the infant and child patient.
16. Explain oxygen administration for the infant and child patient.

Optional: Standard performance evaluations on the final page of this document

Standard 3 - Patient Assessment

Objective 1 Scene Size-Up

1. Discuss common mechanisms of injury/nature of illness.

Objective 2 Initial Assessment

1. Summarize the reasons for forming a general impression of the patient.
2. Discuss methods of assessing altered mental status.
3. Differentiate between assessing the altered mental status in the adult, child and infant patient.
Explain the techniques for assessing mental status

Objective 3 Focused History and Physical Exam (Trauma Patients)

1. State the reasons for performing a rapid trauma assessment.
2. Describe the areas included in the rapid trauma assessment and discuss what should be evaluated using DCAP-BTLS.
3. Discuss the reason for performing a focused history and physical exam.
4. Identify the rapid trauma assessment that should be used to assess a patient based on mechanism of injury.

Objective 4 Focused History and Physical Exam (Medical)

1. Describe the unique needs for assessing an individual with a specific chief complaint with no known prior history.
2. Differentiate between the history and physical exam that are performed for responsive patients with no known prior history and responsive patients with a known prior history.
3. Describe the needs for assessing an individual who is unresponsive.
4. Differentiate between the assessment that is performed for a patient who is unresponsive or has an altered mental status and other medical patients requiring assessment
5. Explain the patient assessment skills that should be used to assist a patient who is responsive with no known history.
6. Explain the patient assessment skills that should be used to assist a patient who is unresponsive or has an altered metal status.

Objective 5 Focused History and Physical Exam (Medical)

1. Discuss the components of the detailed physical exam.
2. Identify the skills involved in performing the detailed physical exam.

Objective 6 On-Going Assessment

1. Describe trending of assessment components.

Objective 7 Communications

1. Summarize an organized, concise patient report that would be given to the staff at a receiving facility.

Objective 8 Documentation

1. Describe what information is required in each section of the prehospital care report and how it should be entered.

Optional: Standard performance evaluations on the final page of this document

Standard 4 - Medical

Objective 1 General Pharmacology

1. Identify and explain the rationale of the administration of the medications carried on an EMS unit and those that an EMT-Basic may assist the patient with administering.

Objective 2 Respiratory Emergencies

1. Describe the emergency medical care of the patient with breathing difficulty.

Objective 3 Cardiac Emergencies

1. Describe the emergency medical care of the patient experiencing chest pain/discomfort. 2. List the indications and contraindications for automated external defibrillation (AED) use.

Objective 4 Diabetic Emergencies/Altered Mental Status

1. Describe the emergency medical care of a patient with an altered mental status that may have a medical history of diabetes.

Objective 5 Allergies

1. Describe the signs, symptoms and emergency medical care of the patient having an allergic reaction.

Objective 6 Poisoning/Overdose

1. Describe the signs, symptoms, and emergency medical care of the patient of a poisoning or overdose.

Objective 7 Environmental Emergencies

1. Describe the signs, symptoms and emergency medical care of the patient exposed to heat and cold extremes.
2. Describe the signs, symptoms and emergency medical care of the patient involved in a water related emergency.

Objective 8 Behavioral Emergencies.

1. Explain the assessment and emergency medical care of the patient experiencing a behavioral emergency.

Objective 9 Obstetrics/Gynecology

1. Identify and explain physiological changes during pregnancy for the following structures:
 - a. Uterus
 - b. Vagina
 - c. Fetus
 - d. Placenta
 - e. Umbilical cord
 - f. Amniotic sac
 - g. Perineum
2. Differentiate the emergency

Optional: Standard performance evaluations on the final page of this document

Standard 5 - Respiratory system

Objective 1 Bleeding and Shock

Define arterial, venous and capillary bleeding.

Explain the sense of urgency to transport patients that are bleeding and show signs of shock (hypoperfusion).

Identify methods of emergency medical care for external bleeding.

Identify the care of a patient exhibiting signs and symptoms of shock (hypoperfusion).

Objective 2 Soft Tissue Injuries

1. Explain the classifications and treatment of burns.
 - a. Superficial burn
 - b. Partial thickness burn
 - c. Full thickness burn

2. Identify the steps of the proper dressing and bandaging of burns and wounds.

Objective 3 Musculoskeletal Care

1. Differentiate between an open and a closed painful, swollen, deformed extremity.
2. State the reasons, general rules and complications for splinting.
3. Demonstrate the emergency medical care of a patient with a painful, swollen, deformed extremity.

Objective 4 Injuries to Head and Spine

1. Relate mechanism of injury to potential injuries of the head and spine and explain the rationale of the proper treatment.
2. Explain the four-person log roll on to a long board for a patient with a suspected spinal cord injury.

Optional: Standard performance evaluations on the final page of this document

Standard 6 - Infants and children.

Objective 1 Infants and Children.

1. Indicate various causes of respiratory emergencies.
2. Differentiate between respiratory distress and respiratory failure.
3. Summarize emergency medical care strategies for respiratory distress and respiratory failure.
4. Identify the signs and symptoms of shock (hypoperfusion) in the infant and child patient.
5. Describe the methods of determining end organ perfusion in the infant and child patient.
6. State the usual cause of cardiac arrest in infants and children versus adults.
7. List the common causes of seizures in the infant and child patient.
8. Describe the management of seizures in the infant and child patient.
9. Differentiate between the injury patterns in adults, infants, and children.
10. Discuss the field management of the infant and child trauma patient.
11. Identify the techniques of foreign body airway obstruction removal in the infant.
12. Identify the techniques of foreign body airway obstruction removal in the child.

Standard 7 - Operations

Objective 1 Ambulance Operations

1. List the phases of an ambulance call.

Objective 2 Gaining Access

1. Discuss the role of the EMT-Basic in extrication.
2. Define the fundamental components of extrication.
3. State the steps that should be taken to protect the patient during extrication.

Objective 3 Overviews

1. Given a scenario of a mass casualty incident, explain how to perform triage.

Performance Skills Evaluation

Exam name: Emergency Medical Technician (EMT)

Candidate Name: _____

Performance assessments may be completed and evaluated any time before the certification is issued. The following performance skills can be used in connection with the associated standards and exam. The evaluator will function as the subject matter expert to determine if the candidate meets the skills requirements with a Yes/No for passing.

Standard 2 – Airway • Candidates will be able to insert an oral airway and nasal airway	Pass:
Standard 3 – Initial Assessment • Candidates will be able to recognize pupil response. • Candidates will be able to complete a prehospital care report.	Pass:
Standard 4 – Medical • Candidates will understand and perform medication administration via handheld nebulizer.	Pass:
Standard 5 – Respiratory System • Candidates will demonstrate the steps for the proper dressing and bandaging of burns and wounds. • Candidates will demonstrate the application of a sling and swath. • Candidates will demonstrate the application of a splint. • Candidates will demonstrate the application of a cervical collar.	Pass:

Evaluator Name:

Date:
