EMT-1303: EMERGENCY MEDICAL TECHNICIAN

Cuyahoga Community College

Viewing: EMT-1303 : Emergency Medical Technician

Board of Trustees:
March 2026

Academic Term:
Fall 2026

Subject Code
EMT - Emergency Medical Technology

Course Number:
1303

Title:
Emergency Medical Technician

Catalog Description:
Comprehensive study of basic life support skills of Emergency Medical Technician (EMT) based on the U.S. Department of Transportation National Standard EMT Curriculum and State of Ohio EMT curriculum requirements, most current version. Includes recognition of nature and seriousness of patient's condition or extent of injuries; and assessing requirements of emergency care, lifting, moving, handling and transporting patients as part of pre-hospital emergency care system. Successful completion of American Heart Association-Basic Life Support for the Healthcare Provider Course component of course required to successfully complete EMT-1303. Successful Completion of EMT-1303 required for NREMT and State of Ohio EMT certification.

Credit Hour(s):
7

Lecture Hour(s):
5

Lab Hour(s):
3.5

Other Hour(s):
37.5

Other Hour Details:
Directed practice and program approved external sites

Requisites

Prerequisite and Corequisite
Eligibility for ENG-1010 College Composition I; and eligibility for MATH-0955 Beginning Algebra, or eligibility to enroll in a math co-requisite pathway of MATH-0930 Essential Skills for Algebraic and Quantitative Reasoning and MATH-1190 Quantitative Reasoning, or eligibility to enroll in a math co-requisite pathway of MATH-0970 Essential Skills for Probability and Statistics and MATH-1410 Elementary Probability and Statistics on placement exams. Emergency Medical Technician, and departmental approval: admission to the program.
Note: ENG-0990 Language Fundamentals II taken prior to Fall 2021 will also meet prerequisite requirements.

Outcomes

Course Outcome(s):
Exhibit professional, ethical and compassionate behavior when interacting with diverse groups of patients and their families, healthcare professionals, and community members.

Objective(s):
1. Describe the Emergency Medical Services (EMS) System and the history of its development.
2. Differentiate the roles, responsibilities and profession of the EMT, Emergency Medical Responder, Advanced EMT, and Paramedic.
3. Describe the concept of lifespan development and how age of patients impacts the assessment and treatment of special populations.

4. Examine important issues in EMS, including research, documentation, and ethical conflicts.
5. Determine the chain of command and reporting structure of Emergency medical Services (EMS) service.
6. Identify the roles of people at emergency scenes, including patient, family member, caretaker and bystander.
7. Describe the importance to the receiving facility staff of the patient care report.

Course Outcome(s):

Use tactical management, critical thinking and ethical decision-making skills to lead and operate an EMS Unit.

Objective(s):

1. Examine the concept of evidence-based medicine and relate its importance to changes in EMS operations.
2. Demonstrate an appreciation for the ethics of the profession and examine the rights of the patient in EMS research.
3. Distinguish the important medical/legal and ethical issues and circumstances encountered in EMS, including consent, criminal/civil law, confidentiality, and ethical conflicts.
4. Recognize the phases of the EMS run.
5. Discuss the selection of the appropriate receiving facility.

Course Outcome(s):

Identify current and potential hazards and perform duties maintaining a safe work environment for oneself, co-workers, patients, and bystanders.

Objective(s):

1. Employ operational roles and responsibilities to ensure patient, public, personnel safety, and bystander safety.
2. Discuss potential hazards an EMT may encounter in the work environment.
3. Demonstrate injury prevention techniques.
4. Maintain a safe work environment for the EMT, co-workers, the patient, and bystanders by utilizing occupational safety and injury prevention techniques.
5. Recognize the importance of the basic principles of public health, especially as related to response to nuclear, biological, and chemical incidents.

Course Outcome(s):

Identify stress within oneself and co-workers and use appropriate stress management techniques to ensure physical and emotional health.

Objective(s):

1. Identify stress reduction techniques to utilize for reducing personal stress, patient stress, and bystander stress.
2. Discuss general wellness techniques.
3. Practice and encourage others to practice, stress reduction, and general wellness techniques.
4. Utilize stress reduction techniques when working with patients and bystanders.

Course Outcome(s):

Learn medical terminology related to communicating with other healthcare professionals regarding patient condition and to completely and accurately document patient care information that meets federal, state and organizational requirements.

Objective(s):

1. Recognize standard medical abbreviations and acronyms.
2. Define medical terms.
3. Demonstrate correct use of medical terminology verbally, in writing, and within an electronic medical record.
4. Discuss the EMS communication system.
5. Demonstrate therapeutic communications techniques with patients.
6. Demonstrate proper communication techniques, using proper methods and terms, when communicating verbally, in writing, in an electronic record, or by phone, cell phone or two-way radio, with doctors, nurses, other EMS professionals, the patient, bystanders, and others.

Course Outcome(s):

Apply knowledge of anatomy, physiology, medicolegal and ethical issues, basic patient assessment skills, and basic medical equipment to identify mechanism of injury or nature of illness to determine therapeutic modalities for the medical and trauma patient and establish the priority of interventions needed to improve the patient's outcome within the EMT scope of practice.

Objective(s):

1. Describe the pathophysiology of conditions and injuries affecting the body systems.
2. Assess the simulated patient's condition using a fundamental understanding of anatomy, physiology, and pathophysiology as they apply to the body systems.
3. Analyze scene information and patient assessment findings (scene size-up, primary and secondary assessment, patient history, reassessment) to guide emergency management.
4. Identify basic techniques for performing primary assessment, secondary assessment, and reassessment of patient condition.
5. Interpret signs and symptoms of medical complaints in the simulated patient in order to categorize the problems by body systems for non-traumatic problems.
6. Interpret signs and symptoms representing shock and the need for resuscitation in a simulated patient.
7. Interpret signs and symptoms of traumatic injuries in simulated patients in order to determine the appropriate interventions.
8. Explain appropriate interventions for all the various types of trauma.
9. Discuss special considerations in trauma situations.
10. Explain procedures/treatment for environmental emergencies.
11. Evaluate the patient's condition using a fundamental understanding of anatomy, physiology, and pathophysiology as it applies to the body systems.

Course Outcome(s):

Demonstrate skill proficiency in pre-hospital assessments and treatments using basic medical techniques and equipment available within the EMT scope of practice.

Objective(s):

1. Explain the principles of pharmacology and use of emergency medications and delivery devices, including epinephrine autoinjector, metered-dose inhaler, and small volume nebulizer.
2. Establish and maintain the patient's airway and manage respiration/ventilation within the EMT scope of practice.
3. Demonstrate techniques used to determine vital signs.
4. Demonstrate techniques used to move patients.
5. Demonstrate techniques used to splint spinal and musculoskeletal injuries.
6. Demonstrate techniques for administering medications utilized in emergency situations to simulated patients within the EMT scope of practice.
7. Demonstrate methods used to establish and maintain the patient's airway and manage respiration/ventilation within the EMT scope of practice.
8. Demonstrate Basic Life Support for Healthcare Provider level CPR.
9. Demonstrate basic emergency care and transportation based on assessment findings for an acutely ill patient and for an acutely injured patient.
10. Demonstrate basic emergency care and transportation based on assessment findings for an acutely injured patient.
11. Demonstrate basic emergency care and transportation based on assessment findings for special patient populations, including pregnant, neonatal, pediatric, geriatric, and special challenges patients.
12. Discuss safe operations of a ground ambulance.
13. Explain procedures for handling a multiple casualty incident (MCI) including incidents caused by terrorism and disasters.
14. Identify situations requiring air medical transport.
15. Discuss techniques used to extricate patient from a vehicle.
16. Recognize situations with potential for hazardous material exposure.

Course Outcome(s):

Be prepared to sit for the National Registry of Emergency Medical Technician (NREMT) Exam.

Objective(s):

1. Describe the processes and procedures to achieve NREMT certification and State of Ohio EMT certification.
2. Recognize and describe the process to recertify the State of Ohio EMT Certification.
3. Complete practical component of NREMT certification exam.

Methods of Evaluation:

1. Quizzes, written examinations
2. Workbook exercises
3. Performance on practical skills at national registry standards
4. American Heart Association Basic Life Support examination
5. Competency testing for physical assessments
6. Competency testing for accurate vital signs skills
7. Competency testing for accurate documentation
8. Comprehensive final examination
9. National Registry examination

Course Content Outline:

1. Concepts
   a. Preparatory information
      i. The EMS System
      ii. Research
      iii. Workforce safety and wellness
      iv. Documentation
      v. EMS system communications
      vi. Therapeutic communications
      vii. Medical/legal and ethics
   b. Anatomy and physiology
      i. Anatomy and body functions
      ii. Life support chain
      iii. Age-related variations for pediatrics and geriatrics
   c. Medical terminology
      i. Medical terminology
      ii. Medical terms
      iii. Standard medical abbreviations and acronyms
   d. Pathophysiology
      i. Composition of ambient air
      ii. Patency of the airway
      iii. Respiratory compromise
      iv. Alteration in regulation of respiration due to medical or traumatic conditions
      v. Ventilation/perfusion ratio and mismatch
      vi. Perfusion and shock
      vii. Microcirculation
      viii. Blood pressure
      ix. Alternation of cell metabolism
   e. Life span development
      i. Infancy, birth to one year
      ii. Toddler, one to three years
      iii. Preschooler, three to five years
      iv. School age, six to twelve years
      v. Adolescence, 13 to 18 years
      vi. Early adulthood, 20 to 40 years
      vii. Middle adulthood, 41 to 60 years
      viii. Late adulthood, 61 years and older
   f. Public health
      i. Basic principles of public health
   g. Pharmacology

i. Principles of pharmacology
ii. Medication administration
iii. Emergency medications

h. Airway management, respiration, and artificial ventilation
i. Airway management
ii. Respirations
iii. Artificial ventilation

i. Patient assessment
i. Scene size up
ii. Primary assessment
iii. History taking
iv. Secondary assessment
v. Monitoring devices
vi. Reassessment
vii. Medicine
1. Medical overview
2. Neurology
3. Abdominal and gastrointestinal disorders
4. Immunology
5. Infectious disease
6. Endocrine disorders
7. Psychiatric
8. Cardiovascular
9. Toxicology
10. Respiratory
11. Hematology
12. Genitourinary/Renal
13. Gynecology
14. Non-traumatic musculoskeletal disorders
15. Diseases of the eyes, ears, nose and throat

j. Shock and resuscitation
i. Ethical issues in resuscitation
ii. Anatomy and physiology review
iii. Respiratory failure
iv. Respiratory arrest
v. Cardiac arrest
vi. Resuscitation
vii. Automated External Defibrillator (AED)
viii. Shock, poor perfusion

k. Trauma
i. Trauma overview
ii. Bleeding
iii. Chest trauma
iv. Abdominal and genitourinary trauma
v. Orthopedic trauma
vi. Soft tissue trauma
vii. Head, facial neck, and spine trauma
viii. Nervous system trauma
ix. Special consideration in trauma
x. Environmental emergencies
xi. Multisystems trauma

l. Special patient populations
i. Obstetrics
ii. Neonatal care
iii. Pediatrics
iv. Geriatrics
v. Patients with special challenges

m. EMS Operations

i. Safely operating a ground ambulance
ii. Incident management
iii. Multiple casualty incidents (MCI)
iv. Air medical
v. Vehicle extrication
vi. Hazardous materials awareness
vii. MCI due to terrorism and disaster

2. Skills
   a. Documentation
   b. Techniques for assuring a patent airway
   c. Oxygen therapy and ventilation
   d. Epinephrine autoinjector
   e. Metered dose inhaler
   f. Small volume nebulizer
   g. Splinting
3. Issues
   a. Research
      i. Ethics of research on patients
      ii. Lack of research in EMS issues
   b. Documentation
      i. Falsification of documentation
   c. Ethical conflicts
      i. Futility of care
      ii. Allocation of limited resources
      iii. Professional misconduct
      iv. Economic triage
      v. Special populations

Religious Accommodation

Before reviewing the course schedule, students should carefully review the following religious accommodation policy and other required instructional policies:

Religious Accommodation:

Students seeking an accommodation for absences permitted under Ohio's Testing Your Faith Act must provide the instructor with written notice of the specific dates for which the student requires an accommodation and must do so not later than fourteen (14) days after the first day of instruction. Please submit requests for accommodations at this link: https://portal2.tri-c.edu/ReligiousAccommodation/ Religious Accommodation Form. Students with questions about their religious accommodations under Ohio's Testing Your Faith Act may contact the College's Office of General Counsel and Legal Services by phone at 216.987.4856 or via email at legal@tri-c.edu.

Other Required Instructional Policies:

https://www.tri-c.edu/student-resources/curriculum/documents/syllabus-part-b.pdf

Weekly Schedule

	Topics
Week 1	• Intro to Syllabus, Brightspace, EMS testing, JB Learn and Limmer Requirements • Clinical Orientation Part 1 • Introduction – • 1.) SIGN STUDENT ACKNOWLEDGEMENT TESTING FORM • 2.) Create account on State of Ohio Public Safety Training Campus • https://learning.dps.ohio.gov/PSTC/index.html?jmptopg=public_safety_training_campus.html#top • 3.) Register and complete Rescue Task Force and Ohio Trauma Triage. 4.) • Login into JB Learn and demonstrate expectations to the class. Week 1B- Lab CPR • 15: BLS Resuscitation
Week 2	• 1: EMS Systems • 2: Workforce Safety and Wellness • 8: Lifting and Moving Patients

Week 3	Week 3A- Lecture • 3: Medical, Legal, and Ethical Issues • 4: Communications Week 3B- - Lecture • 5: Medical Terminology • The Human Body
Week 4	Week 4A Lecture • Airway Management • Pharmacology • Items to be included in the lecture: • NPA, OPA, Suction, O2 Via NRB, BVM of an Apneic PT, Supraglottic Device, Nebulizer with T Week 4B - Lab • Airway 1) NPA, OPA, Suction (ISO sign off) 2) BVM of an apneic PT (ISO sign off) 3) O2 via NRB mask (ISO sign off) 4) Supraglottic airway device (P2P) 5) Nebulizer T (ISO sign off)
Week 5	Week 5A- Lecture • Respiratory Emergencies • Cardiovascular Emergencies • EMS Testing • Items to be included in Lecture: • 12 lead placement (Use Monitor), MDI, Nitro Week 5B - Lecture • Patient Assessment • EMS Testing
Week 6	Week 6A- Lab • Patient Assessment 1) Medical Assessment (Introduction) 2) Trauma Assessment (Introduction) 3) CPR/AED (ISO sign off) 4) Finger Stick (P2P) Week 6B Lecture • Shock • Trauma Overview • Bleeding Overview • Soft Tissue Injuries • Items to be included in Lecture: • Tourniquet, Bandaging Soft Tissue Injuries
Week 7	Week 7A- Lab • 12 lead ECG placement (P2P) • Supraglottic (ISO sign off) • Medication Administration Nitro, MDI (ISO sign off) • Medical assessment (P2P) • Trauma assessment (P2P) Week 7B- - Lecture • 32: Orthopedic Injuries • Joint and Lone Bone Splinting, Traction Splint
Week 8	Week 8 A: Lecture – • Midterm taken in classroom Week 8B- Lab • Trauma assessment (P2P) • LBB/KED board (P2P) • Traction (P2P) • Splinting (P2P) • Bleeding control Hemorrhage and Shock (ISO Sign Off) • Helmet Removal (P2P) • Spiking an IV Bag (P2P)

Week 9	Week 9A- Lecture • Chest Injuries • Abdominal and GI Injuries • C-Collar application, KED, LBB Week 9B - Lecture • Neurological Emergencies/Stroke • Endocrine and Hematological Emergencies Week 9C – Lab
Week 10	Week 10A- Lecture • Toxicology • Behavioral Health Emergencies • State of Ohio Narcan Presentation • IN/IM Administration Narcan Week 10B- Lab • IN/IM Narcan (ISO Sign Off) • Finger stick (ISO Sign Off) • Oral Glucose (P2P) • Medical Assessment (P2P) • Drawing Medication up with a Syringe and Administration (P2P) Use Glucagon, Narcan, and Epi as Examples Week 10C – Lab
Week 11	Week 11A- Lecture • 19: Gastrointestinal and Urologic Emergencies • 21: Allergy and Anaphylaxis • 24: Gynecological Emergencies • Items to be included in Lecture: • EPI Pen Week 11B- Lecture 34: OB/Neonatal Care • 35: Pediatric Emergencies • Pediatric Lab Simulation in class • Include BVM of a Pediatric PT and OPA Insertion Week 11C – Lab
Week 12	Week 12A – Lecture • 15: Medical Overview and Infectious Disease Week 12B - Lecture • 36: Geriatric Emergencies • 37: Patients with Special Considerations Week 12C – Lab
Week 13	Week 13A- Lecture • 38: Transport Operations • 39: Vehicle Extrications • 40: Incident Management • 41: Terrorism/Disaster Management Week 13B- - Lab • Medical and Trauma assessments (ISO Sign Off) • OB Delivery (P2P) Week 13C – Lab
Week 14	Week 14A- Lab: Final Practical, Day One: Testing Class Lab Final Skills • Cardiac Arrest and AED • Patient Assessment/Management – Medical • Random A Skill (O2 vis NRB) • BVM Ventilation of Apneic Adult Patient

Week 15	Week 15A Lab: Final Practical, Day Two: Testing Class Lab Final Skills Patient Assessment/Management – Trauma Random B Skill (Supraglottic) Bleeding Control and Shock Management Week 15B: Final Exam done in classroom/computer lab Limmer paperwork must be completed to take the Final Exam
Week 16	Week 16A State Practical Exam, Day One: Testing State Skills Practical Exam Cardiac Arrest and AED Patient Assessment/Management - Medical Random A Skill (O2 via NRB) BVM Ventilation of Apneic Adult Patient Week 16B State Practical Exam, Day Two: Testing State Skills Practical Exam Patient Assessment/Management – Trauma Random B Skill (Supraglottic) Bleeding Control and Shock Management Week 16 C-

The Course Schedule is subject to change due to pedagogical needs, instructor discretion, parts of term, and unexpected events.

Required/Recommended Readings

Reading will be from one of the below recommended textbooks, as selected by the individual instructors.

1. AAOS, Emergency Care and Transportation of the Sick and Injured (Textbook).
2. Jones and Bartlett Learning Navigate Flipped Classroom (e-book portion of the class) The e-book portion of the class is mandatory. Please make all textbooks and online portion purchases through the college bookstore.
3. American Heart Association BLS Healthcare Provider manual

Resources for the Instructor

American Heart Association. *Basic Life Support for the Healthcare Provider*. American Heart Association, 2025.

(Required Text) American Academy of Orthopaedic Surgeons (AAOS). *Emergency Care and transportation of the Sick and Injured Essentials Package*. 12th ed. Jones & Bartlett Learning, 2021.

National Registry of EMT (NREMT). *2019 National EMS Practice Analysis.*. NREMT, 2019.

EMT Program Staff. *EMT Clinical Manual*. Cuyahoga Community College, 2024.

Additional Resources for the Instructor

1. U. S. Department of Transportation Office of EMS EMT-Basic National Standard Curriculum. https://www.ems.gov/education.html
2. U. S. Department of Transportation Office of EMS EMT Scope of Practice Model. https://www.ems.gov/education.html
3. U. S. Department of Transportation Office of EMS EMT Education Standards. https://www.ems.gov/education.html
4. State of Ohio, Division of EMS, EMT Curriculum. https://ems.ohio.gov/education-and-testing (https://ems.ohio.gov/education-and-testing/)
5. State of Ohio, Division of EMS, EMT Basic Scope of Practice. https://ems.ohio.gov/education-and-testing (https://ems.ohio.gov/education-and-testing/)
6. American Health Association Health Care Provider. BLS. https://cpr.heart.org/en/cpr-courses-and-kits/healthcare-professional/basic-life-support-bls-training (https://cpr.heart.org/en/cpr-courses-and-kits/healthcare-professional/basic-life-support-bls-training/)
7. National Registry of Emergency Medical Technicians National EMS Practice Analysis. https://www.nremt.org/News/EMS-practice-analysis-accepted-for-publication (https://www.nremt.org/News/EMS-practice-analysis-accepted-for-publication/)

Instructional Services

CTAN Number:
Career Technical Assurance Guide CTEMS002 and Industry-Recognized Transfer Assurance Guide ITEMS002

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