

Emergency Medical Technician Practicum

Local Course #: 0

State Course ID: 13020500 & 13020510

Course Description:

This EMT course provides a foundational and comprehensive overview of emergency medical care. The curriculum begins with an introduction to the Emergency Medical Services (EMS) system, covering the history, components, and the EMT's roles and responsibilities, along with a focus on provider well-being and scene safety. Students will learn critical patient assessment skills, from initial scene size-up and primary assessment to advanced techniques for identifying and managing various traumatic injuries, including musculoskeletal, head, neck, spine, chest, and abdominal trauma.

The course delves into core medical principles, including pathophysiology, anatomy, and medical terminology, which are essential for effective communication and understanding how diseases and injuries affect the body at a cellular level. A significant portion of the training is dedicated to the management of specific medical emergencies, such as cardiac events, bleeding, shock, infectious diseases, poisoning, and environmental injuries, as well as specialized care for obstetric, gynecologic, and pediatric emergencies. Students will also be taught essential skills like airway management, resuscitation, and the safe and proper techniques for lifting and moving patients.

Finally, the course addresses advanced operational topics, including patient care across the lifespan, responding to hazardous material and mass-casualty incidents, and specialized operations like highway safety and vehicle extrication. It also covers the legal and ethical considerations that guide EMT practice, preparing students to handle a wide range of complex medical scenarios and make sound decisions in challenging environments.

Link to TEKS:

<https://tea.texas.gov/academics/learning-support-and-programs/innovative-courses/allied-health-therapeutic-services-20210.pdf>

First 9 Weeks Major Topics:

Unit 1: EMS Operations and Components of Patient Assessment

*Overview of how EMT's operate in the field and how they operate emergency vehicles while responding to emergencies. Students will also learn how to assess patients experiencing either medical or traumatic emergencies and the various criteria for evaluating and treating patients.

Unit 2: Patho, Vital Signs, Airway Management, Resp/Artificial Ventilation, Resp Emergencies, and Pharmacology.

*EMT Students will learn how to take and assess vital signs and determine the impact of vital signs on critical systems of the human body. Students will also learn how to assess airway emergencies and how to treat various airway emergencies using specialized techniques, equipment, and medication.

Unit 3: Cardiac Emergencies, Resuscitation, Bleeding & Shock, Chest & Abdominal Trauma, Abdominal Emergencies, and Soft-Tissue Trauma.

*Students will learn how recognize patients in shock (hypo perfusion) and determine which shock the patient is in. They will also evaluate and treat various forms of shock and manage cardiac, abdominal, and soft-tissue injuries.

Second 9 Weeks Major Topics:

Unit 4: Musculoskeletal Trauma, Trauma to Head, Neck and Spine, Multisystem Trauma, Hematological and Renal Emergencies, Diabetic and Altered Mental Status, Allergic Reactions

*Students will learn how to treat various musculoskeletal trauma to the body and head and neck. They will also learn how to recognize and great various endocrine and hematological emergencies, along with identifying and treating anaphylaxis and allergic reactions.

Unit 5: Infectious Diseases, Poisoning and Overdose, Psych and Suicide, Environmental Emergencies, and OB/Gyn

*Students will learn how to identify and treat various emergencies related to poisonings and overdoses, and students will learn how to use Narcan to treat overdoses. Students will also learn how to handle patients experiencing psychological emergencies and how to safely manage and deal with those situations.

Third 9 Weeks Major Topics:

Unit 6: Communication and Documentation, Anatomy and Physiology, Legal and Ethics, Lifting and Moving, and Well Being of the EMT.

*Students will learn how to properly document patient interactions and treatments and they will learn how to legally perform as an EMT within their scope of practice. Students will also learn how to properly lift patients and remove patients from emergency scenes.

Unit 7: Hazmat and Mass Casualty, Highway Safety and Extrication, and Patients with Special Considerations

*Students will learn how to recognize and handle HAZMAT situations and how to safely remove (extricate) patients from vehicles. They will also learn how to interact with patients with special challenges.

Fourth 9 Weeks Major Topics:

Unit 8: Terrorism, Life Span Development, and Intro to EMS

*Students will learn the process by which humans develop and various medical conditions that comes with the natural aging process. Students will also learn how to properly triage and recognize terroristic situations.

NREMT Skills Testing

NREMT Exam Prep

