# EMS 53: EMERGENCY MEDICAL TECHNICIAN: BASIC PART B

## Foothill College Course Outline of Record

| Heading | Value |
|---|---|
| **Effective Term:** | Fall 2021 |
| **Units:** | 6 |
| **Hours:** | 4 lecture, 6 laboratory per week (120 total per quarter)<br>Includes 2 hours clinical laboratory. |
| **Prerequisite:** | EMS 52. |
| **Advisory:** | EMS 53 is part two of two courses required to be eligible to take the California State written and practical exam for certification as an Emergency Medical Technician-1; EMS 52 and 53 may not be taken concurrently; not open to students with credit in EMT 51 or 305. |
| **Degree & Credit Status:** | Degree-Applicable Credit Course |
| **Foothill GE:** | Non-GE |
| **Transferable:** | CSU |
| **Grade Type:** | Letter Grade (Request for Pass/No Pass) |
| **Repeatability:** | Not Repeatable |

## Description

Second of two courses required to be eligible to take the California State written and practical exam for certification as an Emergency Medical Technician-1 (EMT-1). Intended to instruct a student to the level of Emergency Medical Technician-Basic who serves as a vital link in the chain of the health care team. Students will participate in hands-on application of skills necessary to work as a competent EMT. Students will also perform patient assessment scenarios focused on medical and trauma complaints and treatments of various diseases and injuries, to build competence and prepare them to sit for the state certification exam. Includes all knowledge and skills necessary for the individual to provide emergency medical care at a basic life support level with a fire department or other specialized service.

## Course Objectives

The student will be able to:
A. Identify major anatomical structures of the body and their function in relation to the total body system.
B. Recognize the nature and seriousness of the patient's condition or extent of injuries to assess requirements for emergency medical care.
C. Administer appropriate emergency medical care based on assessment findings of the patient's condition.
D. Lift, move, position, and otherwise handle the patient to minimize discomfort and prevent further injury.
E. Describe techniques of victim access, disentanglement, and removal from the scene of a vehicular crash or other entanglement.
F. Debate and interpret the legal implications of emergency care.
G. List priorities of care with multiple trauma victims and/or multiple victims (triage).
H. Discuss transportation considerations for patients with various medical devices.
I. Perform safely and effectively the expectations of the job description. Discuss the role of the EMT-1 in the delivery of emergency medical services, indicating common problems and providing suggestions for improvement of services to the community.
J. Identify and treat musculoskeletal, soft tissue injuries.
K. Discuss patients with behavioral problems.
L. Demonstrate an understanding of OB GYN emergencies.
M. Discuss and demonstrate how to properly lift and move patients.
N. Demonstrate the proper way of treating various types of wounds and to splint fractures.
O. Discuss various childhood illnesses injuries and how to treat them.
P. Exhibit an understanding of ambulance operations and California Law.
Q. Discuss various types of emergencies which involve multiple agency responses.

## Course Content

A. The human body.
1. Enhances the EMT-Basic's knowledge of the human body.
2. A brief overview of body systems.
3. Anatomy and physiology.
4. Topographic anatomy and terms.
B. Trauma patient assessment.
1. Determine mechanism of injury and develop a treatment plan.
C. Treatment.
1. Treatment plans will be in accordance with local and state guidelines.
2. Give appropriate treatment to improve patients condition.
D. Lifting and techniques for moving patients in multiple positions.
1. Learn the proper method to lift patients.
2. Learn to use multiple devices to move the patient.
E. Learn the proper techniques to extricate or disentangle a patient from their environment.
1. Learn the scene safety during rescue operations.
2. Learn about the tools used and their appropriate use during the rescue operation.
F. Medical/legal and ethical issues.
1. Discuss the legal concerns and their implications during patient care.
G. Multiple patient situations.
1. Learn the importance of triage.
2. Discuss how the EMS system deals with this type of event and how the EMT is to work within incident command system.
H. Transportation of patients with medical devices.
1. Learn the scope of practice for the EMT Basic for patients with medical devices.
I. The EMS system.
1. Learn how to work within the EMS system.
2. Discuss the importance of CQI.
J. Musculoskeletal system.
1. Learn how to treat various injuries to the skeletal system.
2. Learn how to treat soft tissue and burn injuries.
K. Behavioral emergencies.
1. Awareness of behavioral emergencies.
2. Management of the disturbed patient.
L. Obstetrics/gynecology.
1. Anatomical and physiological changes that occur during pregnancy.
2. Demonstrate normal and abnormal deliveries.
3. Common gynecological emergencies.
4. Neonatal resuscitation.

M. Lifting and moving patients.
1. Knowledge of body mechanics.
2. Lifting and carrying techniques, principles of moving patients.
3. Overview of equipment.
4. Practical skills of lifting and moving will also be developed in this lesson.
N. Soft tissue and musculoskeletal injuries.
1. Anatomy of the skin and the management of soft tissue and musculoskeletal injuries and the management of burns.
2. Techniques of dressing and bandaging wounds.
3. Splinting.
4. Emergency medical care, including the use of cervical immobilization devices and short and long back boards.
5. Helmet removal.
O. Infants and children.
1. Developmental and anatomical differences in infants and children.
2. Common medical and trauma situations.
P. Ambulance operations.
1. Responding to a call.
2. Emergency vehicle operations, equipment, gaining access, and removing the patient.
Q. Special incidents.
1. Hazardous materials.
2. Incident management systems.
3. Mass casualty situations.
4. Basic triage.

## Lab Content

Skills practice to become competent for NREMT (National Register EMT) testing. Skills include, but are not limited to:
A. Medical Patient Assessment
B. Trauma Patient Assessment
C. Airway Management - CPAP
D. IV Set-up
E. Childbirth Deliveries
F. Traction Splints
G. Spinal Immobilization
1. Seating
2. Supine
H. Helmet Removal
I. CPR/FBAO
J. Glucometer
K. Chest Seal
L. Epi-Auto-Injector

## Special Facilities and/or Equipment

A. Standard classroom with tables, as practice area.
B. Audio Visual equipment.
C. Emergency Medical Services (EMS) equipment required by the course curriculum and consistent with local procedures. This includes CPR mannequins, AEDs, OB mannequin, portable airway and oxygen equipment, spinal immobilization devices, splints and bandages, patient movement devices and appropriate patient assessment equipment.
D. In addition to the required hours of instruction, this course requires that the student have a minimum 24 hours of patient interactions in a clinical setting with 10 patient contacts. Also, 8 hours will be required for vehicle extrication, victim removal, and ambulance operations outside of class.

## Method(s) of Evaluation

Methods of Evaluation may include but are not limited to the following:

A. Written quizzes.
B. Final written exam (achieve an 80% or better on the final to successfully pass the course, successfully pass the skills evaluations).
C. Complete a minimum 24 hours clinical experience with 10 patient write-ups.
D. Must achieve a 75% or better for a course completion certificate.
E. Demonstrate a professional attitude to instructors and other students and maintain a professional appearance, including wearing the appropriate program uniform, name tag, a watch with a second hand throughout program and clinical.

## Method(s) of Instruction

Methods of Instruction may include but are not limited to the following:

Lecture
Discussion
Cooperative learning exercises

## Representative Text(s) and Other Materials

Mistovich, Joseph. Prehospital Emergency Care. 10th ed. Pearson Publisher, 2013. Package with My Brady Lab. ISBN 978-01337-6656-1
Foothill's Skills Manual

## Types and/or Examples of Required Reading, Writing, and Outside of Class Assignments

Weekly reading assignment from the text. Example: Session 1: read Chapters 40, 42, 43, during the first week of class.

## Discipline(s)

Emergency Medical Technologies