

**EMC 104.1 Course Outline as of Fall 2020****CATALOG INFORMATION**

Dept and Nbr: EMC 104.1 Title: EMT REFRESHER

Full Title: Emergency Medical Technician Refresher

Last Reviewed: 2/24/2020

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	0.50	Lecture Scheduled	0.25	17.5	Lecture Scheduled	4.38
Minimum	0.50	Lab Scheduled	1.25	1	Lab Scheduled	21.88
		Contact DHR	0		Contact DHR	0
		Contact Total	1.50		Contact Total	26.25
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 8.75

Total Student Learning Hours: 35.00

Title 5 Category: AA Degree Applicable

Grading: P/NP Only

Repeatability: 21 - Legally Mandated Repetition

Also Listed As:

Formerly: EMC 274.1

**Catalog Description:**

Refresher course designed to update the knowledge and skills of the Emergency Medical Technician (EMT) in compliance with the requirements as outlined by the State of California Code of Regulations, Title 22 and the National Registry of EMT. Basic principles learned as an EMT are used in the exploration and solving of problems encountered in the pre-hospital setting.

**Prerequisites/Corequisites:****Recommended Preparation:****Limits on Enrollment:****Schedule of Classes Information:**

Description: Refresher course designed to update the knowledge and skills of the Emergency Medical Technician (EMT) in compliance with the requirements as outlined by the State of California Code of Regulations, Title 22 and the National Registry of EMT. Basic principles learned as an EMT are used in the exploration and solving of problems encountered in the pre-hospital setting. (P/NP Only)

Prerequisites/Corequisites:  
Recommended:  
Limits on Enrollment:  
Transfer Credit:  
Repeatability: Legally Mandated Repetition

## **ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:**

<b>AS Degree:</b>	<b>Area</b>	<b>Effective:</b>	<b>Inactive:</b>
<b>CSU GE:</b>	<b>Transfer Area</b>	<b>Effective:</b>	<b>Inactive:</b>
<b>IGETC:</b>	<b>Transfer Area</b>	<b>Effective:</b>	<b>Inactive:</b>
<b>CSU Transfer:</b>		<b>Effective:</b>	<b>Inactive:</b>
<b>UC Transfer:</b>		<b>Effective:</b>	<b>Inactive:</b>

**CID:**

**Certificate/Major Applicable:**  
Not Certificate/Major Applicable

## **COURSE CONTENT**

### **Student Learning Outcomes:**

At the conclusion of this course, the student should be able to:

1. Identify changes and updates that apply to maintaining California certification as an Emergency Medical Technician.

### **Objectives:**

At the conclusion of this course, the student should be able to:

1. Identify any change in the state Emergency Medical Technician (EMT) regulations and scope of practice.
2. Demonstrate the ability to complete a patient assessment.
3. Review treatment and demonstrate proficiency in the care of:
  - a. trauma emergencies
  - b. cardiac and respiratory emergencies
  - c. emergency childbirth
  - d. pediatric emergencies
  - e. musculo-skeletal emergencies
  - f. neurological emergencies
  - g. environmental emergencies
4. Identify principles of triage and demonstrate management skills necessary during a mass casualty incident.
5. Demonstrate proficiency at cardiopulmonary resuscitation according to the American Heart Association guidelines.
6. Identify and list communicable diseases that are of concern to the pre-hospital workers.
7. Define Sudden Infant Death Syndrome and cite impact to emergency medical care personnel.
8. Demonstrate basic airway management skills.

9. Review EMT skills as described by the National Registry of EMTs (NREMT).
10. Review EMT Skills as described by California or title 22 to include:
  - a. glucometry
  - b. pulse oximetry
  - c. Naloxone administration
  - d. administration of Epinephrine via auto injector

## **Topics and Scope:**

- I. Demonstrate Competency in State of California EMT Skill
  - A. Trauma assessment
  - B. Medical assessment
  - C. Bag-valve-mask ventilation
  - D. Oxygen administration
  - E. Cardiac arrest management with automatic external defibrillator (AED)
  - F. Hemorrhage control and shock management
  - G. Spinal motion restriction , supine and seated
  - H. Penetrating chest injury
  - I. Epinephrine and Naloxone administration
  - J. Child birth and neonatal resuscitation
- II. Pre-Hospital Care and Patient Assessment
  - A. Trauma scoring
  - B. Reporting information
  - C. Severe bleeding and shock
- III. Respiratory Emergencies
  - A. Airway adjunct and indication for use
  - B. Practice of airway management
  - C. Respiratory scenarios/simulations
- IV. Musculo-Skeletal Emergencies
  - A. Anatomy and physiology
  - B. Assessment/treatment of fractures and dislocation injuries
- V. Neurological Emergencies
  - A. Motor vehicle accident-spinal injuries
  - B. Spinal motion restriction
- VI. Cardiovascular Emergencies
  - A. Myocardial infarction and treatment
  - B. American Heart Association CPR guidelines
  - C. Cardiac arrest management and AED
- VII. Obstetrics/Pediatrics
  - A. Emergency childbirth
  - B. Infant/pediatric resuscitation - neonatal, infant, Pedi
- VIII. Environmental Emergencies
  - A. Hazardous materials
  - B. Hyper/hypothermia
  - C. Bites and stings
- IX. Triage
  - A. Simple triage and rapid transport
  - B. Multi casualty incident management
- X. Communicable disease
  - A. Body substance, isolation precautions
  - B. Diseases of concern to EMS
- XI. Sudden Infant Death Syndrome

- A. EMT role
- B. Stress management of parent and caregiver
- XII. Introduction of Pediatric Education for Pre-Hospital Professionals
- XIII. National Registry skills review
  - A. Patient assessment
    - 1. Trauma
    - 2. Medical
  - B. Cardiac arrest management with AED
  - C. Airway management
  - D. Oxygen administration
  - E. Ventilation of the apneic adult
  - F. Spinal immobilization
    - 1. Supine
    - 2. Seated
  - G. Immobilization
    - 1. Joints
    - 2. Traction
  - H. Bleeding control and shock management
- XIV. EMT regulatory updates
  - A. Scope of practice
  - B. Medical legal issues

All topics included in lecture and lab.

### **Assignment:**

#### **Lecture-Related Assignments:**

1. Read approximately 12 pages per one hour of instruction
2. Develop 5 emergency response scenarios to be presented orally in groups

#### **Lab-Related Assignments:**

1. Demonstration of 9 National Registry skills (ungraded)
2. Demonstration of 10 California mandated skills

### **Methods of Evaluation/Basis of Grade:**

**Writing:** Assessment tools that demonstrate writing skills and/or require students to select, organize and explain ideas in writing.

None, This is a degree applicable course but assessment tools based on writing are not included because problem solving assessments and skill demonstrations are more appropriate for this course.

Writing  
0 - 0%

**Problem Solving:** Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

Group scenarios with oral report to class

Problem solving  
20 - 40%

**Skill Demonstrations:** All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

Skill demonstration of National Registry and California mandated skills

Skill Demonstrations  
60 - 80%

**Exams:** All forms of formal testing, other than skill performance exams.

None

Exams  
0 - 0%

**Other:** Includes any assessment tools that do not logically fit into the above categories.

None

Other Category  
0 - 0%

**Representative Textbooks and Materials:**

EMT Complete. 2nd ed. Le Baudour, Christopher and Batsie, Daniel and Dickinson, Edward and Limmer, Daniel. Brady Books 2013 (classic)

Emergency Care Transportation of the Sick and Injured. 11 ed. American Academy of Orthopaedic Surgeons (AAOS). Jones and Bartlett. 2017

Instructor prepared materials