

MT. DIABLO ADULT EDUCATION
A Division of Mt. Diablo Unified School District
Career and Technical Education Center



COURSE OF STUDY

- I. TITLE: **Emergency Medical Responder and Public Safety Course (EMR)****
- Code: 4.4260
- Program: Career & Technical Education
- Length: 8 weeks (7 weeks for online component)
- Hours/week: 12 (9 hours in class, plus 3 hours online)
- Total hours: 90 (Lecture – 62; Lab – 28; Externship – 0)

II. BRIEF DESCRIPTION:

The Emergency Medical Responder and Public Safety (EMR) course teaches the knowledge and skills necessary to be an Emergency Medical Responder (also known as a First Responder). This is an introductory course to medical careers with an emphasis on emergency medical services, and includes CPR and First Aid certifications. The course meets and exceeds the requirements for the California Emergency Services Agency First Aid Standards for Public Safety Personnel. Successful completion allows students to apply for employment as lifeguards, public safety officers, child care providers, security guards, and also for positions with California Department of Forestry and Fire Protection. Successful students will be eligible to apply for employment in a diverse array of public safety and EMS careers, as well as developing an educational pathway into EMT, paramedic, fire technology, nursing, and other allied health occupations. Students are recommended to take EMR before taking the Emergency Medical Technician course.

III. PROGRAM OBJECTIVES:

- To prepare students with the knowledge and skill set required performing the duties of an emergency medical responder...
- To prepare students to be successful in the EMT-Basic course, leading to state EMT certification or other occupational fields.
- To train students in all aspects of the industry enabling them to make appropriate employment decisions to obtain an entry-level position in the Public Safety, Child Care, Fire Technology, Emergency Medical Services, and other Allied Health occupations
- Demonstrate strong communication and interpersonal skills.
- Appropriately apply industry materials, procedures and technologies as relates to this discipline.

IV. PERFORMANCE OBJECTIVES:

- Demonstrate First Aid and CPR competencies as defined by the American Heart Association standards.
- Explain the roles, responsibilities, and scope of practice of the EMR while operating as part of a first responder team.
- Demonstrate emergency responder critical thinking, problem solving and practical skills both as an individual and while working as part of an emergency response team.

- Identify patient conditions and apply knowledge of pathophysiology and disease and injury processes to formulate a treatment plan, while operating as part of an emergency response team.
- Apply critical thinking skills to apply the correct treatment to stabilize a patient in an emergency while working as part of an emergency response team.
- As part of a team, assist EMTs, Paramedics, Lifeguards, Peace Officers, Fire Fighters, and other first responders or health professionals with patient care within the EMR scope of practice.
- Apply the knowledge and skills attained for success in the EMR course.

V. METHODS OF EVALUATION

- Group Project or Paper
- Written quizzes (minimum score of 80%)
- Workbook and Practice Quizzes completed online
- Class participation
- Written final examination (minimum score of 80%)
- Skills Assessments (minimum score of 80% and no critical failures)

VI. CONDITIONS FOR REPETITION

May be repeated by those who do not successfully complete all objectives.

VII. PROGRAM REQUIREMENTS

- Minimum age recommended is 16
- Program Completion (All requirements completed at 80% or higher unless noted)
 - i. Written Quiz and Exams
 - ii. Skills Assessments (no critical failures)
 - iii. Attendance at 90%
 - iv. Workbook and Practice Quizzes
 - v. Group Project or Paper
 - vi. Class Participation

VIII. METHOD(S) OF INSTRUCTION

- Lecture with PowerPoint presentations
- Skills Demonstrations
- Role playing/Scenarios
- Group and Individual Work
- Class Discussions
- Online Lecture review
- Online Assignments (Workbook/Practice Quizzes)

IX. INSTRUCTIONAL UNITS

1. Introduction/Orientation to the Course

- i. Expectations of the student, instructors, school, and course
- ii. Intro to emergency care, well-being of the EMR (First Responder)
- iii. Distinctions between First Responder and EMT-1, Paramedic
- iv. Medical/legal/ethical issues- legal and ethical codes of conduct
- v. Render basic life support, rescue and emergency medical care to patients

2. American Heart Association BLS providers/ Heart Saver/ CPR and AED certification test and skills practice

- i. Lecture, Skills and Practice, Certification Exam following AHA Guidelines

3. First Aid certification test and skills practice

- i. Lecture Skills and Practice, Certification Exam following AHA Guidelines

4. Human Body/Scene Size Up and Initial Assessment, Diagnostic Vital Signs,

- i. Intro to anatomy and physiology of the body with how it relates to EMS.
- ii. Performing a scene size up to determine scene safety.
- iii. Differentiate life-threatening emergencies from non-life threatening emergencies.
- iv. Evaluate the ill and injured
- v. Perform methods of obtaining diagnostic vital signs to include, but not limited to, temperature, blood pressure, pulse and respirations, pulse oximetry, level of consciousness and pupil status

5. Airway Management

- i. Assessment, treatment and management of airway emergencies.
- ii. Use of airway adjuncts, suctioning, oxygen administration via various devices.

6. Respiratory Emergencies

- i. Assessment and treatment of respiratory emergencies including medication intervention for management of such.
- ii. Learn and use basic oxygen administration devices such as administering oxygen, using adjunctive airway & breathing devices pocket mask and other devices.

7. Pharmacology/Documentation/Communication

- i. Introduction to pharmacology as it pertains to EMS providers.
- ii. Introduction to completing a Pre-hospital Care Report as required by law.
- iii. Introduction to communication as it pertains to EMS providers in the patient, ambulance and hospital setting.
- iv. Learn to assist OTC (over the counter) Medications when approved by LEMSA or any other agencies having jurisdiction
- v. Oral glucose or sugar solutions, Aspirin for MI , familiarity and introduction

8. Cardiac Emergencies, CPR, Setting up for ALS procedures

- i. Assessment and treatment of cardiac emergencies including medication intervention.
- ii. Perform CPR, including the use of mechanical adjuncts to basic CPR
- iii. Learn how to set up ALS equipment by an Advanced EMR or Paramedic,
- iv. Learn and perform with the AED, Automated External Defibrillator

9. Altered Mental Status/Diabetic Emergencies

- i. Assessment and treatment non-traumatic problems of the central nervous system and including medication intervention for management of such.

10. Acute Abdominal Emergencies/Allergic Reactions/Poisoning and Overdose Emergencies

- i. Assessment and treatment of non-traumatic problems of the abdomen.
- ii. Assessment and treatment of allergic reactions including medication intervention for management of such.
- iii. Assessment and treatment of poisoning and overdose emergencies

11. Environmental Emergencies/Behavioral Emergencies

- i. Assessment and treatment of environmental emergencies including management of such.
- ii. Assessment and treatment of behavioral emergencies including management of such.

12. Obstetrics and Gynecological Emergencies/Intro to Trauma/Mechanisms of Injury

- i. Assessment and treatment of gynecological emergencies including management of such with instruction on emergency childbirth.
- ii. Introduction to mechanisms of injury which may result in severe traumatic injuries including management of such.
- iii. Learn to extricate trapped patients
- iv. Learn to perform field triage, transport patients and use mechanical patient restraint

13. Injuries to the Head and Spine

- i. Assessment and treatment of injuries to the head and spine with emphasis on recognition, immobilization and management of head and spinal injuries.
- ii. Use of various types of stretchers and spinal immobilization devices
- iii. Perform spinal immobilization and seated spinal immobilization

14. Bleeding Control and Shock Management

- i. Assessment, treatment and management of bleeding emergencies and assessment, treatment and management of shock.
- ii. Bleeding control through the application of a tourniquet, use of hemostatic dressings

15. Soft Tissue and Musculoskeletal injuries

- i. Assessment and treatment of soft tissue injuries including management of such.

16. Infants and Children/Geriatric Patients

- i. Assessment and treatment of infants and children including the special considerations in regards to the difference in anatomy and interpersonal communications.
- ii. Assessment and treatment of geriatric patients including special considerations in regards the interpersonal communications and extremes in the life span.

17. Skill Performance Evaluation

- i. Comprehensive integration of thought process and skills performance in Airway Management, Patient Assessment/Management – Medical, Patient Assessment/Management – Trauma, Spinal Immobilization, AED use, and a random skill chosen from among any of several National Registry skills, including but not limited to Traction Splinting and Bleeding Control/Shock Management.

18. Presentation of Course Completion Materials

- i. Policies and procedures of the Emergency Medical Services Systems for initial certification and National Certification if desired
- ii. Job Fair /Market research for EMR/EMT /Paramedic / Nursing School, guest speakers and presentations
- iii. Course completion certificates to students