Course Outline for Emergency Medical Services 4

EMERGENCY MEDICAL TECHNICIAN – BASIC – REFRESHER

Catalog Description:

EMS 4 - Emergency Medical Technician – Basic – Refresher 2.00 units
Provides refresher training in the foundation knowledge, skills, and abilities required of the EMT-Basic scope of practice. The EMT-B certification is the minimum requirement for ambulance attendants and most entry-level Firefighter positions. EMT certification is also required for entry into Paramedic school. 40 total hours accredited by the Alameda County EMS Agency. Includes CE’s and skills competency verification to National Registry standards. Prerequisite: EMT and BLS certification. Total - 2 weeks

Prerequisite: current EMT certification.

Grading Option: Pass/No Pass

Discipline:

<table>
<thead>
<tr>
<th>Units</th>
<th>Contact Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Week</td>
<td>Term</td>
</tr>
<tr>
<td>2.00</td>
<td>40.00</td>
</tr>
</tbody>
</table>

Lecture 20 40.00
Laboratory 0 0
Clinical 0.00 0.00
Total 2.00 20.00 40.00

Prerequisite Skills:

None

Measurable Objectives:

Upon completion of this course, the student should be able to:

1. explain the roles and responsibilities of the EMT-1;
2. describe functioning within the Alameda County EMS system and the established policies, procedures, and protocols;
3. recognize conditions and situations that require pre-hospital care and/or stabilization;
4. perform rapid, comprehensive and accurate medical and trauma patient assessments;
5. perform with competence all skills and interventions within the EMT-1 scope of practice;
6. manage effectively multi-casualty incidents;
7. demonstrate the proper use and maintenance of all equipment used by the EMT-1;
8. explain the medical/legal aspects of emergency care and issues related to proper documentation, confidentiality and ethics;
9. assist Paramedics and advanced medical providers with the delivery of advanced life support within the EMT-1 scope of practice;
10. prevent disease transmission through the use of body substance isolation;
11. discuss wellness issues such as stress management, body mechanics, lifting techniques, and use of personal protective equipment.
12. monitor intravenous lines delivering glucose solutions or isotonic balanced salt solutions including Ringer's lactate for volume replacement. Monitor, maintain, and adjust if necessary in order to maintain, a preset rate of flow and turn off the flow of intravenous fluid.
13. administer naloxone or other opioid antagonist by intranasal and/or intramuscular routes for suspected narcotic overdose;
14. administer epinephrine by auto-injector for suspected anaphylaxis and/or severe asthma;
15. perform finger stick blood glucose testing.

Course Content:

1. Preparatory
   A. Roles and responsibilities of the EMT-1, medical direction, quality improvement, and continuing education.
   B. Well-being of the EMT-1, body substance isolation, protective equipment, and scene safety.
   C. Medical, legal and ethical issues; review of federal, State and local laws pertinent to EMT-1 scope of practice. Confidentiality, advanced directives and ethical/moral issues are discussed.
   D. Basic anatomy and physiology, and medical terminology.
   E. Vital signs and patient history, review and development of skills learned in prerequisite course work.
   F. Techniques for lifting and moving patients with a focus on body mechanics and injury prevention.

2. Airway Management
   A. Ventilation and oxygen therapy.
   B. Comprehensive study of respiratory function and anatomy of the adult and pediatric patients.
   C. Utilization of airway BLS and ALS adjuncts including; oxygen administration techniques and utilization for infants, children, adults and special needs patients.

3. Patient Assessment
   A. The use of personal safety equipment, body substance isolation.
   B. Scene evaluation – identification of scene hazards and possible dangers, determination of mechanism of injury, resources needs, and indications for extrication of patients.
   C. Patient evaluation – Assessment based approach to patient evaluation; diagnosis of specific injuries and illness is de-emphasized; integration of patient assessment techniques into overall scene management and treatment modalities.
   D. Assessment of geriatric patients – understand the differences between the average adult, geriatric, and pediatric patient.
   E. Communications – skills equipment and system used by the EMT-1. Emphasis on medical direction and on-line communications.
Methods of Presentation

1. Lecture/Discussion
2. Reading assignments via EMT textbooks, handout materials, and online
3. Scenario-based skills lab
4. Use of skills in supervised clinical rotations
5. Demonstration/Exercise
6. Presentation

Assignments and Methods of Evaluating Student Progress

1. Typical Assignments
   A. Lecture and skills demonstration on current & new skills in the EMT scope of practice, including: Monitor intravenous lines delivering glucose solutions or isotonic balanced salt solutions including Ringer's lactate for volume replacement. Administer naloxone or other opioid antagonist by intranasal and/or intramuscular routes for suspected narcotic overdose; Administer epinephrine by auto-injector for suspected anaphylaxis and/or severe asthma; Perform finger stick blood glucose testing; and Administer over the counter medications, when approved by the medical director, including, but not limited to: Aspirin.
   B. Lecture 1) Breathing, Oxygen delivery and ventilation 2) Airway management 3) Respiratory emergencies
   C. Reading assignment 1) Review airway management, basic oxygen delivery and positive pressure ventilation skills in skills book.
   D. Skills lab 1) Practice patient assessment skills in small teams with skills instructor. 2) Small team practice and development of assessment skills on a simulated respiratory distress patient with skills instructor. 3) Skills Demonstration and practice using airway adjuncts and maneuvers with assistance and guidance of skills instructor.

2. Methods of Evaluating Student Progress
   A. Exams/Tests
      B. Quizzes
   C. Skills Evaluations 1) Skills are evaluated during the course as they are reviewed and mastered. Skill testing is graded on a pass / no pass basis, based on standards established by the National Registry of Emergency Medical Technicians.
   D. Assigned activities
   E. Competency
   F. Attendance

3. Student Learning Outcomes
   Upon the completion of this course, the student should be able to:
      A. Perform all learning outcomes of the EMT, such as: Identify life-threatening emergencies.
      B. Perform CPR and use an AED.
      C. Administer oxygen.
      D. Stabilize fractures.

Textbooks (Typical):
3. Online resources via Canvas

Special Student Materials
1. Stethoscope and Penlight – Type, student choice.
2. Tape - 1 roll of 2” cloth, white medical.

Abbreviated Class Schedule Description:
Provides refresher training in the knowledge, skills, and abilities required of the EMT-Basic scope of practice. 40 total hours accredited by the Alameda County EMS Agency, including CE’s and skills competency verification to National Registry standards. Prerequisite: EMT and BLS certification. There are assignments to complete outside of class; All hours must be attended; You will receive a skills competency verification form and 24 hours of CE upon successful completion. You are requested to log into Canvas prior to the first day of class for further instructions. If there is an issue with enrolling, please request a form from counseling to confirm that you are repeating this class for vocational purposes and/or that you met the prerequisite at another school. Total - 2 weeks

Prerequisite: current EMT certification.