

Module 7: EMS Operations

Lesson 7-1 EMS Operation

Objectives

Objectives Legend

C=Cognitive P=Psychomotor A=Affective

1 = Knowledge level

2 = Application level

3 = Problem-solving level

Cognitive Objectives

At the completion of this lesson, the CFR student will be able to:

- 7-1.1 Discuss the medical and non-medical equipment needed to respond to a call. (C-1)
- 7-1.2 Discuss the role of the CFR in extrication. (C-1)
- 7-1.3 Describe what the CFR should do if there is reason to believe that there is a hazard at the scene. (C-1)
- 7-1.4 State the role the CFR should perform until appropriately trained personnel arrive at the scene of a hazardous materials situation. (C-1)
- 7-1.5 Describe the criteria for a multiple-casualty situation. (C-1)
- 7-1.6 Discuss the role of the CFR in the multiple-casualty situation. (C-3)
- 7-1.7 Summarize the components of basic triage. (C-1)

Affective Objectives

At the completion of this lesson, the CFR student will be able to:

- 7-1.8 Explain the rationale for having the unit prepared to respond. (A-3)

Psychomotor Objectives

At the completion of this lesson, the CFR student will be able to:

- 7-1.9 Given a scenario of a mass casualty incident, perform triage. (P-2)

Preparation

Motivation:

A CFR will be functioning as part of the EMS System. This lesson is designed to provide the student with a brief overview of some of the operational aspects of out-of-hospital care.

The CFR should be familiar with the medical and non-medical equipment for use in patient care. The CFR should also be aware of the phases of a response and his/her role in each.

Although the CFR is not usually responsible for rescue and extrication, a fundamental understanding of the process is required.

Prerequisites:

Preparatory, Airway, Patient Assessment, Circulation, and Illness and Injuries Modules

Materials

AV Equipment:

Utilize various audio-visual materials relating to EMS operations. The continuous development of new audio-visual materials relating to EMS requires careful review to determine which best meet the needs of the program. Materials should be edited to ensure meeting the objectives of the curriculum.

EMS Equipment:

Triage Tags, Emergency Response Guidebook,

Personnel

Primary Instructor:

One EMT-B Instructor, knowledgeable in EMS operations.

Assistant Instructor:

The instructor-to-student ratio should be 1:6 for psychomotor skill practice. Individuals used as assistant instructors should be knowledgeable in EMS operations procedures.

Recommended Minimum Time to Complete:

One hour.

Presentation

Declarative (What)

- I. A. Preparation for the call
 0. Recommended equipment
 - a. Medical
 - (1) Basic supplies
 - (2) Airways
 - (3) Suction equipment
 - (4) Artificial ventilation devices
 - (5) Basic wound care supplies
 - b. Non-medical
 - (1) Personal safety equipment per local, state, and federal standards
 - (2) Planned routes or comprehensive street maps
 1. Personnel
 - a. Available for response
 2. Equipment
 - a. Checked and maintained
 - b. Restocked and repaired
 3. Utilization of safety precautions and seat belts
- B. Arrival at scene
 1. Notify dispatch
 2. Size-up
 - a. Body substance isolation
 - (1) Should be a consideration before patient contact.
 - (2) Use gloves, gowns, and eyewear when appropriate.
 - b. Scene safety - assess the scene for hazards.
 - (1) Is the emergency vehicle parked in a safe location?
 - (2) Is it safe to approach the patient?
 - (3) Does the patient require immediate movement because of hazards?
 - c. Mechanism of injury/nature of illness
 - (1) Medical
 - (a) Mass casualty incident
 - (b) Number of patients
 - (c) Obtain additional help.
 - (d) Begin triage.
 - (e) Spine stabilization if necessary
 - (2) Trauma
 - (a) Mass casualty incident
 - (1) Number of patients
 - (2) Obtain additional help.
 - (3) Begin triage.
 - (b) Spine stabilization if necessary
 - d. Total number of patients
 - e. Need for additional help or assistance

New York State Certified First Responder Refresher Curriculum

Adapted from the United States Department of Transportation
First Responder Refresher: National Standard Curriculum

3. Actions at scene
 - a. Organized
 - b. Rapid/efficient
- II. Air Medical Consideration
 - A. Utilization
 - B. Patient preparation
 - C. Landing zones
 - D. Safety
- III. Extrication
 - A. Role of the CFR
 1. Administer necessary care to the patient before extrication and assure that the patient is removed in a way to minimize further injury.
 2. Patient care precedes extrication unless delayed movement would endanger life of the patient or rescuer.
 3. Working with others
 - a. In some instances, CFRs are also the rescue providers.
 - b. A chain of command should be established to ensure patient care priorities.
 - B. Removing the patient
 1. Work under the direction of the EMS providers.
 2. Maintain spine stabilization.
 3. Complete initial assessment.
 4. Provide critical interventions.
- IV. Hazardous Materials
 - A. Common problem
 - B. Actual extent unknown
 - C. Safety is the primary concern
 1. CFR and crew
 2. Patient
 3. Public
 - D. Approaching the scene
 1. Identification
 - a. Occupancy
 - b. Containers - size/shape
 - c. Placards
 - d. Shipping papers
 - e. Senses
 2. General procedures
 - a. Park upwind/uphill from the incident, at a safe distance.
 - b. Keep unnecessary people away from area.
 - c. Isolate the area.
 - (1) Keep people out.
 - (2) Do not enter unless properly trained and fully protected.
 - d. Avoid contact with material.
 - e. Remove patients to a safe zone, if no risk to CFR.

- f. Do not enter a HazMat area unless you are trained as a HazMat Technician.
 - E. Environmental hazards
 - F. Resources
 - 1. Local hazardous materials response team
 - 2. *Hazardous Materials, The Emergency Response Handbook*, published by the United States Department of Transportation
 - G. Review Occupational Safety and health Administration (OSHA) and National Fire Protection Association (NFPA) Haz Mat requirements for EMS providers including CFRs.
- III. Mass casualty incidents
 - A. Basic triage
 - 1. Sorting multiple casualties into priorities for emergency medical care or transportation to definitive care.
 - 2. Priorities are given in three levels.
 - 3. Triage categories
 - a. Highest priority
 - (1) Airway and breathing difficulties
 - (2) Uncontrolled or severe bleeding
 - (3) Decreased mental status
 - b. Second priority
 - (1) Burns without airway problems
 - (2) Major or multiple painful, swollen, deformed extremities
 - (3) Back injuries
 - c. Lowest priority
 - (1) Minor painful, swollen, deformed extremities
 - (2) Minor soft tissue injuries
 - (3) Death
 - B. Procedures for CFR arrival to a mass casualty incident
 - 1. Most knowledgeable EMS provider arriving on-scene first becomes triage officer, until relieved by a responder with a higher level of training.
 - 2. Confirms incident and establishes a command post.
 - 3. Additional help should be requested.
 - 4. Perform initial assessment on all patients first.
 - 5. Start triage tag for each patient.
 - 6. Assign available personnel and equipment to priority one patients.
 - 7. Triage officer remains at scene to assign and coordinate personnel, supplies, and vehicles.
 - C. Procedures for responding to a mass casualty incident where incident command has been established
 - 1. Report to command post.
 - 2. Identify the Incident Commander, identify yourself and your level of training.
 - 3. Follow directions from the Incident Commander.

Application

Procedural (How)

None identified for this lesson.

Contextual (When, Where, Why)

The knowledge of EMS operations is applied throughout the career of the CFR.

Gaining access is intended to be an overview of the actions required to extricate a patient. It is not the intent of this lesson to teach the CFR the techniques of extrication. A number of special classes are available to teach such specialized knowledge and skills. This lesson should emphasize the safety and medical aspects of this process.

Student Activities

Auditory (Hearing)

1. Students should hear audio tapes of actual dispatch conversations with callers to the 9-1-1 system.
2. Students should hear audio tapes of actual dispatch information.

Visual (Seeing)

1. Students should see actual equipment or audio-visual materials of ambulance equipment.
2. Students should see audio-visual materials depicting an actual ambulance run.
3. Students should see various crash scenes to determine if additional help will be necessary to remove the patient.
4. Students should see the various options of personal protective equipment.

Kinesthetic (Doing)

1. Students should practice receiving and sending information to dispatch.
2. Students should practice evaluating crash scenes to determine the need for complex rescue.

Instructor Activities

Facilitate discussion and supervise practice.

Reinforce student progress in cognitive, affective, and psychomotor domains.

Redirect students having difficulty with content. (Complete remediation form.)

Evaluation

Written:

Develop evaluation instruments, e.g., quizzes, oral reviews, and handouts, to determine if the students have met the cognitive and affective objectives of this lesson.

Practical:

Evaluate the actions of the CFR students during role play, practice, or other skill stations to determine their compliance with the cognitive and affective objectives and their mastery of the psychomotor objectives of this lesson.

Remediation

Identify students or groups of students who are having difficulty with this subject content. Complete remediation sheet from the instructor's course guide.

Enrichment

What is unique in the local area concerning this topic? Complete enrichment sheets from instructor's course guide and attach with lesson plan.

