

**EASTERN ARIZONA COLLEGE**  
**Advanced Cardiac Life Support Renewal**  
**Course Design**  
**2011-2012**

**Course Information**

<b>Division</b>	Allied Health
<b>Course Number</b>	EMT 220A
<b>Title</b>	Advanced Cardiac Life Support Renewal
<b>Credits</b>	0.5
<b>Developed by</b>	Mark Kempton
<b>Lecture/Lab Ratio</b>	0.5 Lecture/0 Lab
<b>Transfer Status</b>	Pending Evaluation
<b>Activity Course</b>	No
<b>CIP Code</b>	51.0904
<b>Assessment Mode</b>	Pre/Post Test (40 Questions/40 Points)
<b>Semester Taught</b>	Upon Request
<b>GE Category</b>	None
<b>Separate Lab</b>	No
<b>Awareness Course</b>	No
<b>Intensive Writing Course</b>	No

**Prerequisites**

None

**Educational Value**

Current ACLS is required in the EMT-Paramedic program.

**Description**

This course is designed to provide core information necessary to renew students American Heart Association's ACLS Provider course. The content is focused on the key concepts of advanced cardiac life support including ethical considerations in cardiac resuscitation. Current ACLS is required in the EMT-Paramedic program.

**Supplies**

None

## **Competencies and Performance Standards**

### **1. Perform basic and advanced airway management to include endotracheal intubation.**

#### **Learning objectives**

*What you will learn as you master the competency:*

- a. Demonstrate proper techniques for airway management and endotracheal intubation.

#### **Performance Standards**

*Competence will be demonstrated:*

- On quizzes at the end of the chapter.
- By practical exercises.

*Criteria - Performance will be satisfactory when:*

- Learner demonstrates proper techniques for airway management and endotracheal intubation.

### **2. Perform ventilation and oxygen therapy techniques.**

#### **Learning objectives**

*What you will learn as you master the competency:*

- a. Demonstrate sufficient ventilations to non-breathing patient.
- b. Demonstrate proper uses of airway delivery devices.

#### **Performance Standards**

*Competence will be demonstrated:*

- On quizzes at the end of the chapter.
- By practical exercises.

*Criteria - Performance will be satisfactory when:*

- Learner demonstrates sufficient ventilations to a non-breathing patient.
- Learner demonstrates proper uses of airway delivery devices.

### **3. Manage the following cardiovascular conditions: bradycardia, tachycardia, acute myocardial infarction (MI), hypotension, cardiogenic shock, pulmonary edema, and stroke.**

#### **Learning objectives**

*What you will learn as you master the competency:*

- a. Demonstrate management of the following cardiovascular conditions: bradycardia, tachycardia, acute myocardial infarction (MI), hypotension, cardiogenic shock, pulmonary edema, and stroke.

#### **Performance Standards**

*Competence will be demonstrated:*

- On quizzes at the end of the chapter.
- By practical exercises.

*Criteria - Performance will be satisfactory when:*

- Learner demonstrates management of the following cardiovascular conditions: bradycardia, tachycardia, acute myocardial infarction (MI), hypotension, cardiogenic shock, pulmonary edema, and stroke.
- Learner provides acceptable answers to verbal questions.

**4. Manage lethal dysrhythmias including ventricular fibrillation (VF, or V-fib)/pulseless ventricular tachycardia (VT, or T-tach), pulseless electrical activity (PEA), asystole/agonal.**

**Learning objectives**

*What you will learn as you master the competency:*

- a. Demonstrate management of lethal dysrhythmias including ventricular fibrillation (VF, or V-fib)/pulseless ventricular tachycardia (VT, or T-tach), pulseless electrical activity (PEA), asystole/agonal.

**Performance Standards**

*Competence will be demonstrated:*

- On quizzes at the end of the chapter.
- By practical exercises.

*Criteria - Performance will be satisfactory when:*

- Learner demonstrates management of lethal dysrhythmias including ventricular fibrillation (VF, or V-fib)/pulseless ventricular tachycardia (VT, or T-tach), pulseless electrical activity (PEA), asystole/agonal.

**5. Perform various electrical therapies.**

**Learning objectives**

*What you will learn as you master the competency:*

- a. Demonstrate defibrillation, cardioversion, and transcutaneous pacing electrical therapies.

**Performance Standards**

*Competence will be demonstrated:*

- On quizzes at the end of the chapter.
- By practical exercises.

*Criteria - Performance will be satisfactory when:*

- Learner demonstrates defibrillation, cardioversion, and transcutaneous pacing electrical therapies.

**6. Perform intravenous therapy techniques and invasive monitoring.**

**Learning objectives**

*What you will learn as you master the competency:*

- a. Demonstrate intravenous therapy techniques and invasive monitoring.

**Performance Standards**

*Competence will be demonstrated:*

- On quizzes at the end of the chapter.
- By practical exercises.

*Criteria - Performance will be satisfactory when:*

- Learner demonstrates intravenous therapy techniques and invasive monitoring.

**7. Manage various nonlethal dysrhythmias.**

**Learning objectives**

*What you will learn as you master the competency:*

- a. Recognize the following: artifact, bradycardias, tachycardias, atrial dysrhythmias, sinus rhythm, pacemaker rhythms, morphologic electrocardiogram (ECG) changes associated with myocardial ischemia and acute MI.

**Performance Standards**

*Competence will be demonstrated:*

- On quizzes at the end of the chapter.
- By practical exercises.

*Criteria - Performance will be satisfactory when:*

- Learner demonstrates how to manage various nonlethal dysrhythmias.

**8. Become familiar with the cardiovascular medications used in resuscitation of patient suffering a cardiovascular crisis.**

**Learning objectives**

*What you will learn as you master the competency:*

- a. Identify the proper drug(s) used in any given situation.
- b. Ensure proper dosage of drug(s) used.
- c. Recognize when a drug(s) is contraindicated.

**Performance Standards**

*Competence will be demonstrated:*

- On quizzes at the end of the chapter.
- By practical exercises.

*Criteria - Performance will be satisfactory when:*

- Learner becomes familiar with the cardiovascular medications used in resuscitation of patient suffering a cardiovascular crisis.

**9. Recognize and be familiar with early management for the patient suffering from various emergency situations.**

**Learning objectives**

*What you will learn as you master the competency:*

- a. Demonstrate care for individual(s) suffering from stroke, traumatic cardiac arrest, drowning, hypothermia, cardiac arrest when pregnant, electrocution, lightning strikes, drug overdose, and electrolyte imbalances.

**Performance Standards**

*Competence will be demonstrated:*

- On quizzes at the end of the chapter.
- By practical exercises.

*Criteria - Performance will be satisfactory when:*

- Learner recognizes and is familiar with early management for the patient suffering from various emergency situations.

***Types of Instruction***

Classroom Presentation

Student participation

Practical Exercises

***Grading Information******Grading Rationale***

Quizzes may be given at various intervals the course but will not count toward the grade. A pretest will be administered at the beginning of the course which will not count as part of the final grade. A final written examination (post test) will be given.

***Grading Scale***

A	92-100% of total point value
B	84-91.9% of total point value
C	75-83.9% of total point value
D	67-74.9% of total point value
F	0-66.9% of total point value