

HLTH-1320: CPR-AED FOR HEALTHCARE PROFESSIONALS

Cuyahoga Community College

Viewing: HLTH-1320 : CPR-AED for Healthcare Professionals

Board of Trustees:

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Academic Term:

Fall 2022

Subject Code

HLTH - Health

Course Number:

1320

Title:

CPR-AED for Healthcare Professionals

Catalog Description:

Designed to provide healthcare professionals the ability to recognize pediatric and adult in-hospital and out-of-hospital chain of survival steps and teach skills of adult, child, and infant CPR, ventilation with breathing devices, use of an automatic external defibrillator (AED), relief of foreign-body airway obstruction, and team dynamics. An American Heart Association (AHA) Healthcare Provider certificate will be awarded upon successful completion of the AHA Basic Life Support (BLS) examination and all core BLS skills.

Credit Hour(s):

1

Lecture Hour(s):

1

Lab Hour(s):

0

Other Hour(s):

0

Requisites

Prerequisite and Corequisite

None

Outcomes

Course Outcome(s):

Explain the roles and responsibilities of healthcare providers for in-hospital and out-of-hospital life-threatening emergencies, recognize the importance of team dynamics, and determine the appropriate actions in providing high-quality CPR, use of an AED, and relief of foreign-body airway obstructions.

Essential Learning Outcome Mapping:

Not Applicable: No Essential Learning Outcomes mapped. This course does not require application-level assignments that demonstrate mastery in any of the Essential Learning Outcomes.

Objective(s):

1. Describe the steps of the Chain of Survival for pediatric and adult in-hospital and out-of-hospital life threatening situations.
2. Describe the importance of high-quality CPR and its impact on survival.
3. Recognize the signs of an adult, child, and infant needing CPR.
4. Describe the importance of early use of an AED for adults, children 8 years of age and older, and infants and children younger than 8 years of age.
5. Describe the importance of teams in multi-rescuer resuscitation.
6. Recognize how to perform as an effective team member during multi-rescuer CPR.

7. Describe the three elements of team dynamics during a resuscitation attempt including roles and responsibilities, communication, and debriefing.
8. Identify the signs of an adult, child, and infant needing rescue breathing
9. Discuss techniques for giving breaths without a barrier device for an adult, child, and infant.
10. Describe modifications for compressions and breaths with an advanced airway in place.
11. Recognize an opioid-associated life-threatening emergency.
12. Discuss the importance of administering naloxone in opioid-associated life-threatening emergencies.
13. Describe the steps in the opioid life-threatening emergency response sequence.
14. Identify the signs of a foreign-body airway obstruction (choking) for an adult, child, and infant.
15. Discuss the steps for relief of foreign-body airway obstruction for a responsive and unresponsive adult, child, and infant.
16. Identify the signs of heart attack and stroke.
17. Describe the steps to help a heart attack or stroke victim.
18. Describe the actions to help a victim of cardiac arrest due to drowning.

Course Outcome(s):

Apply the principles of caring for life-threatening emergencies for adults, children, and infants by demonstration of skills performing high-quality CPR, use of an AED, relief of foreign-body airway obstruction and team dynamics.

Essential Learning Outcome Mapping:

Not Applicable: No Essential Learning Outcomes mapped. This course does not require application-level assignments that demonstrate mastery in any of the Essential Learning Outcomes.

Objective(s):

1. Demonstrate how to perform high-quality one-rescuer and two-rescuer CPR for an adult, child, and infant.
2. Demonstrate how to perform rescue breathing and effective ventilation for an adult, child, and infant using a pocket mask barrier device and a bag-mask device.
3. Demonstrate the appropriate use of an AED for adults, children 8 years of age or older, and infants and children younger than 8 years of age.
4. Demonstrate the techniques for relief of a foreign-body airway obstruction for a responsive adult, child, and infant.
5. Demonstrate the techniques for relief of a foreign-body airway obstruction for an unresponsive adult, child, and infant.
6. Demonstrate how to perform as an effective team member during a multi-rescuer CPR scenario.

Methods of Evaluation:

1. Skill evaluations
2. Skill scenarios
3. Adult CPR-AED skills test
4. Infant CPR skills test
5. Final AHA Exam
6. Written or online assignments

Course Content Outline:

1. Concepts
 - a. Recognition of signs of severe life-threatening emergencies including cardiac arrest, respiratory arrest, foreign-body airway obstruction
 - b. Causes of cardiac arrest, respiratory arrest, and foreign-body airway obstruction
 - i. Adult
 - ii. Child
 - iii. Infant
 - c. Steps of Chains of Survival for in- and out-of-hospital settings
 - d. Technical aspects of performing high-quality CPR
 - i. One-rescuer CPR for adult, child, and infant
 - ii. Two-rescuer CPR for an adult, child, and infant
 - e. Technical aspects for use of an AED
 - i. Adults
 - ii. Children older than 8 years of age

- iii. Infants or children less than 8 years of age
 - f. Team dynamics
 - i. Roles and responsibilities
 - ii. Types of communication
 - iii. Debriefing
 - iv. Importance of teams in multi-rescuer CPR attempts
 - g. CPR and breaths with advanced airway
 - h. Opioid-associated-life-threatening emergencies
 - i. Technical aspects of rescue breathing
 - i. Adult
 - ii. Child
 - iii. Infant
 - j. Technical aspects of foreign-body airway obstruction relief
 - i. Responsive adult, child, and infant
 - ii. Unresponsive adult, child, and infant
- 2. Skills
 - a. Steps in the Chain of Survival
 - b. Adult, child, and infant one-rescuer CPR
 - c. Adult, child, and infant two-rescuer CPR
 - d. Use of an Automatic External Defibrillator (AED)
 - e. Use of barrier devices
 - i. Pocket-masks
 - ii. Bag-valve masks
 - f. Rescue breathing for adult, child, and infant
 - g. Relief of foreign-body airway obstruction for responsive adult, child, and infant
 - h. Relief of foreign-body airway obstruction for unresponsive adult, child, and infant
 - i. Multi-rescuer CPR scenario in team dynamics setting
- 3. Issues
 - a. Life-threatening medical emergencies
 - b. Chain of survival for in-hospital life-threatening medical emergencies
 - b. Chain of survival for out-of-hospital life-threatening medical emergencies
 - c. Team dynamics

Resources

American Heart Association. (2020) *BLS Provider Manual*, American Heart Association.

American Heart Association. (2020) *BLS Provider Manual eBook*, American Heart Association.

BLS Spanish Provider Manual. (2020) *BLS*, American Heart Association.

American Heart Association. (2021) *Heartsaver First Aid, CPR, AED Student Workbook*, American Heart Association.

Resources Other

American Heart Association (2020). BLS Digital Reference Cards.

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