

Western Technical College

10531918 Advanced Emergency Resuscitation

Course Outcome Summary

Course Information

Description	By teaching Advanced Cardiac Life Support (ACLS) and Pediatric Advanced Life Support (PALS) methodologies and protocols, this course prepares the paramedic student in the integration of comprehensive knowledge of causes and pathophysiology into the management of shock, respiratory failure, respiratory arrest, cardiac arrest, and peri - arrest states with an emphasis on early intervention to prevent respiratory and / or cardiac arrest if possible.
Career Cluster	Law, Public Safety, Corrections and Security
Instructional Level	Associate Degree Courses
Total Credits	1
Total Hours	36

Textbooks

2015 Handbook of Emergency Cardiovascular Care (ECC) for Healthcare Providers (2015 Handbook of ECC). Product #: 15-1000. Copyright 2015. American Heart Association. Publisher: American Heart Association. **ISBN-13:** 978-1-61669-397-8. Required.

Advanced Cardiovascular Life Supplement and Cards. Copyright 2016. American Heart Association. Publisher: American Heart Association. **ISBN-13:** 978-1-61669-400-5. Required.

Pediatric Advanced Life Support - Manual. Copyright 2015. Ralston, Mark. Publisher: American Heart Association. **ISBN-13:** 978-1-61669-599-0. Required.

Program Outcomes

1. Prepare for incident response and EMS operations.
2. Integrate pathophysiological principles and assessment findings to provide appropriate patient care.
3. Demonstrate paramedic skills associated with established standards and procedures for a variety of patient encounters.
4. Communicate effectively with others.
5. Demonstrate professional behavior.
6. Meet state and national competencies listed for paramedic certification(s).

Course Competencies

1. Examine the need for resuscitation.

Assessment Strategies

- 1.1. Oral, Written or Graphic Assessment

Criteria

You will know you are successful when:

- 1.1. you answer questions related to the learning objectives on a test.
- 1.2. you achieve the threshold identified by your Training Center on the assessment.

Learning Objectives

- 1.a. Discuss ethical issues in resuscitation.
- 1.b. Differentiate between the pre-morbid conditions of a healthy and unhealthy adult patient.
- 1.c. Discuss the anatomy and physiology of the respiratory and cardiovascular systems.
- 1.d. Describe the physiology of normal blood flow through the body.
- 1.e. Discuss the physiology of blood flow through the body during CPR, including heart pump theory, thoracic pump theory, and the impact of negative intrathoracic pressure.
- 1.f. Discuss the epidemiology and pathophysiology of cardiac arrest.

2. Explain resuscitation efforts and considerations.

Assessment Strategies

- 2.1. Oral, Written or Graphic Assessment

Criteria

You will know you are successful when:

- 2.1. you answer questions related to the learning objectives on a test.
- 2.2. you achieve the threshold identified by your Training Center on the assessment.

Learning Objectives

- 2.a. List system components to maximize survival for a patient suffering from a cardiac arrest.
- 2.b. Describe basic life support interventions (refer to AHA guidelines).
- 2.c. Describe airway control and ventilation interventions.
- 2.d. Discuss the delivery of effective chest compressions.
- 2.e. List arrest cardiac rhythms (refer to current AHA guidelines).
- 2.f. List non-arrest cardiac rhythms (refer to current AHA guidelines).
- 2.g. Describe ALS electrical therapies used in the treatment of cardiac arrhythmias and arrest (refer to current AHA guidelines).
- 2.h. List the steps involved in administering automated external defibrillation to a patient suffering from a cardiac arrest (refer to current AHA guidelines).
- 2.i. Describe ALS intravenous access as pertinent to treating cardiac arrest.
- 2.j. Discuss the epidemiology, pathophysiology, and management of patients with special arrest and peri-arrest situations (refer to current AHA guidelines).
- 2.k. Discuss post-resuscitation support after the return of spontaneous circulation (ROSC) (refer to current AHA guidelines).

3. Perform resuscitation.

Assessment Strategies

- 3.1. Skill Demonstration

Criteria

You will know you are successful when:

- 3.1. you follow the published protocol provided by your Training Center.
- 3.2. you comply with AHA (or equivalent) BLS for Healthcare Provider guidelines.
- 3.3. you comply with AHA (or equivalent) ACLS guidelines.
- 3.4. you comply with AHA (or equivalent) PALS guidelines.

Learning Objectives

- 3.a. Comply with AHA (or equivalent) BLS for Healthcare Provider guidelines.
- 3.b. Comply with AHA (or equivalent) ACLS guidelines.
- 3.c. Comply with AHA (or equivalent) PALS guidelines.

