

Advanced Cardiovascular Life Support (ACLS) Course Module

Overview

Advanced Cardiovascular Life Support (ACLS) is meant for medical personnel who manage cardiac arrest or other cardiovascular emergencies. Students will develop their abilities to recognize and treat cardiopulmonary arrest, immediately following cardiac arrest, acute dysrhythmia, stroke, and acute coronary syndromes (ACS) through didactic education and direct participation in simulated situations.

Aim

ACLS is designed for healthcare professionals includes personnel in emergency response, emergency medicine, intensive care and critical units.

Training Objective

At the end of this course, the participants should be able to

- Apply the Basic Life Support (BLS), Primary and Secondary Assessment sequences for a systematic evaluation of adult patients
- Perform prompt, high-quality BLS, including prioritizing early chest compressions and integrating early automated external defibrillator (AED) use
- Recognize respiratory arrest
- Perform early management of respiratory arrest
- Discuss early recognition and management of ACS, including appropriate disposition
- Discuss early recognition and management of stroke, including appropriate disposition
- Recognize bradyarrhythmias and tachyarrhythmias that may result in cardiac arrest or complicate resuscitation outcome
- Perform early management of bradyarrhythmias and tachyarrhythmias that may result in cardiac arrest or complicate resuscitation outcome
- Recognize cardiac arrest
- Perform early management of cardiac arrest until termination of resuscitation or transfer of care, including immediate post-cardiac arrest care
- Evaluate resuscitative efforts during a cardiac arrest through continuous assessment of cardiopulmonary resuscitation (CPR) quality, monitoring the patient's physiologic response, and delivering real-time feedback to the team
- Model effective communication as a member or leader of a high-performance team
- Recognize the impact of team dynamics on overall team performance



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Training Structure

ACLS Provider Course includes practice learning stations and a Megacode evaluation station.

The practice learning stations give an opportunity for students to actively participate in a variety of learning activities, including:

- Simulated clinical scenarios
- Demonstrations by instructors or video
- Discussion and role playing
- Practice in effective high-performance team behaviour

In these learning stations, students will practise essential skills both individually and as part of a high-performance team. This course emphasizes effective team skills as a vital part of the resuscitative effort. Students will have the opportunity to practise as a member and as a leader of a high-performance team.

At the end of the course, students will participate in a Megacode evaluation station to validate the achievement of the course objectives. A simulated cardiac arrest scenario will evaluate the following:

Knowledge of core case material and skills

Knowledge of algorithms

Understanding of arrhythmia interpretation

Use of appropriate basic ACLS drug therapy

Performance as an effective leader of a high-performance team

Prerequisite

- Valid BLS License
- Taken the ACLS Pre-Test (Online) and pass with minimum score of 70%

Methodology

- Face-to-face classroom teaching
- Video
- Practical
- Assessment theoretical/practical

Target Participants

Healthcare professional—Doctors , nurses & medical assistants

Award

At the end of the training and upon successfully passing the assessment, the participants will be awarded a "Certificate of Proficiency" .