



HS342: Advanced Cardiac Life Support

Training Description:

The Advanced Cardiac Life Support (ACLS) training course is a five-day practical course designed to provide healthcare professionals with the advanced skills and knowledge required to respond effectively to cardiac emergencies. ACLS is critical for improving patient survival in cases of cardiac arrest, acute coronary syndromes and other life-threatening cardiovascular events.

This intensive training course combines theoretical knowledge with hands-on practice in advanced resuscitation techniques, including airway management, ECG interpretation, pharmacology, team dynamics, and post-resuscitation care. Participants will engage in interactive lectures, simulation-based exercises, case studies and practical workshops to develop competence in critical decision-making and life-saving interventions.

By the end of the course, participants will be able to recognize and respond to cardiac emergencies, lead resuscitation teams, apply advanced interventions according to current guidelines and improve patient outcomes through timely and coordinated care. The training course enhances clinical judgment, technical skills and teamwork in high-stakes situations.

Training Objectives:

By the end of the training, participants will be able to:

- ✓ Recognize and respond to cardiac emergencies including cardiac arrest, stroke and acute coronary syndromes
- ✓ Interpret ECGs and identify arrhythmias requiring intervention
- ✓ Perform high-quality CPR and advanced airway management
- ✓ Administer ACLS medications according to protocols
- ✓ Lead and participate effectively in resuscitation teams
- ✓ Apply algorithms for cardiac arrest and post-resuscitation care
- ✓ Demonstrate effective team communication and decision-making under pressure
- ✓ Utilize defibrillation, pacing and other advanced interventions
- ✓ Implement evidence-based practices to improve patient survival

Training Designed for:

This training course is designed for physicians, nurses, paramedics, emergency medical technicians, critical care staff, anesthetists and other healthcare professionals involved in the management of patients experiencing cardiac emergencies. It is ideal for clinicians seeking certification or recertification in ACLS or those who want to enhance their life-saving skills and team leadership in emergency situations.

Training Requirement:

“Hands on practical sessions, equipment and software will be applied during the course if required and as per the client’s request.”

Contents can be adapted to your specific wishes. It is therefore possible to focus on specific modules of the training course as per client’s learning needs and objectives. Further, it should be forwarded to us a month prior to the course dates.

Training Program:

DAY ONE:

INTRODUCTION TO ACLS AND BASIC LIFE SUPPORT

❖ Foundations of Cardiac Emergency Response

- Overview of Advanced Cardiac Life Support (ACLS)
- Review of basic life support (BLS) principles and techniques
- Initial patient assessment and rapid response strategies
- Team dynamics and roles in resuscitation
- Practical exercise: High-quality CPR and BLS drills

DAY TWO:

ECG INTERPRETATION AND ARRHYTHMIA MANAGEMENT

❖ Understanding Cardiac Rhythms

- Advanced ECG interpretation for arrhythmias
- Recognition of ventricular tachycardia, ventricular fibrillation, bradycardia and atrial arrhythmias
- Indications for defibrillation and pacing
- Practical exercise: ECG rhythm recognition and intervention simulations

DAY THREE:

ADVANCED AIRWAY AND PHARMACOLOGY

❖ Airway Management and Life-Saving Medications

- Advanced airway techniques including intubation and adjuncts
- Oxygen delivery and ventilation strategies
- ACLS medications: indications, dosages and administration
- Practical exercise: Airway management and drug administration in simulated emergencies

DAY FOUR:

CARDIAC ARREST AND EMERGENCY ALGORITHMS

❖ Application of ACLS Protocols

- Cardiac arrest management and resuscitation algorithms
- Post-resuscitation care and stabilization
- Management of acute coronary syndromes and stroke emergencies
- Case studies: Team-based simulation of cardiac emergencies
- Workshop: Coordinated response drills using ACLS algorithms

DAY FIVE:

TEAM LEADERSHIP AND CERTIFICATION SIMULATIONS

❖ Mastering ACLS in Practice

- Leading a resuscitation team in high-pressure situations
- Advanced scenarios with realistic patient simulations
- Integration of all ACLS principles: BLS, airway, ECG, pharmacology and teamwork
- Evaluation and feedback on performance
- Final assessment: Written and practical ACLS certification exercises

❖ Course Conclusion

❖ POST-ASSESSMENT and EVALUATION

Training Methodology:

This interactive training course includes the following training methodologies as a percentage of the total tuition hours:

- 30% Lectures, Concepts, Role Play
- 70% Workshops & Work Presentations, Techniques, Based on Case Studies & Practical Exercises, Gamification, Software & General Discussions
- Pre and Post Test

Training Certificate(s):

CMCT Internationally recognized certificate(s) will be issued to each participant who completed the course.

Training Fees:

TBA as per the course location - This rate includes participant's manual, hand-outs, buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Note: The 5% VAT (Value Added Tax), will be effective starting 01st of January 2018 as per the new regulation from the UAE Government. The VAT applies for all quotation both for local and abroad.

Training Timings:

Daily Timings:

07:45 - 08:00	Morning Coffee / Tea
08:00 - 10:00	First Session
10:00 - 10:20	Recess (Coffee/Tea/Snacks)
10:20 - 12:20	Second Session
12:20 - 13:00	Recess (Prayer Break & Lunch)
13:00 - 14:00	Last Session

For training registrations or in-house enquiries, please contact:

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