

## Programme Offers (Moduls)

Every programme point can be taken single or also combined with others up to a full course.

### **Emergency equipment and systems:**

- Including the introduction of the latest equipment which is used in modern emergency standards in Germany an Europe.
- Talking about different equipped cars/helicopters/planes or boats or different materials which is used in different countries world wide.
- Introduction of different european standard sytems for emergency.

### **Cardiac emergencies**

- Acute coronary syndrome
  - STEMI
  - NSTEMI
- Angina pectoris
- heart failure
- hypertensive crisis
- pulmonary embolus
- cardiac arrhythmia

### **Disaster medicine**

- Phases of disaster
- Origin of disasters
- Prevention and Planning
- Personal Protective Equipment
- Triage
- Pharmaceutical and medical Equipment in Disasters
- Special topics
  - Heat Wave
  - Conventional Explosions at Mass Gathering
  - Tunnel Explosion
  - Petroleum Distillation / Processing Facility Explosion
  - Fires and Burns
  - Gunshot Attacks
  - Structural collapse – crush injury
  - Aircraft Crash

## Important Drugs in Emergency

- Respiratory System
- Cardiocirculatory System
  - Antiarrhythmics
  - Antihypotonics
  - Antihypertonics
  - Catecholamines
- Anesthesia – Analgesia – Sedation

## Polytrauma

- Management
- Pneumothorax – Chest tube
- Positioning – Transport – Fracture Treatment
- Shock – Volume Resuscitation

## Respiration and Airway Management

- Acute Asthma
- Obstruction
- Aspiration
- Hyperventilation
- Intubation – Ventilation

## Resuscitation

- Algorithm of CPR
- Electrical Therapy
- Drugs
- Training

## Toxicology

- First Aid
- Algorithm
- Decontamination
- Treatment of Intoxication with
  - Different kinds of Drugs
  - Insecticides
  - Atropine
  - Fumes – Carbone Monoxide
  - Cyanide

## Chest Tube and Chest Tube Training

- Physiology
- Indication
- Technique
- Complications

## Gastrointestinal bleeding

- Prehospital and Hospital Phase
- Physiology
- Diagnostic investigations
- Treatment options

## Pediatric emergencies

- CPR on infants theory and practice
- Drown accidents
- Krupp, sudden-death, bronchiolitis, cramps, etc.

## Neurological emergencies

- Stroke management
- Stroke treatment
- Psychological disorders
- Epilepsy
- TIA
- Subarachnoidal-bleeding

## Thermic emergencies

- Flashlight accidents
- Frostbites, undercooling
- Hyperthermic coma
- Sunstroke
- Burns and smoke inhalation

## Cardinal symptoms, cases and treatments in

- Ophthalmological emergencies
- Emergency Disorders of the Ear, Nose, Sinuses, Oropharynx and Mouth
- Obstetric and gynecologic emergencies and rape
- Genitourinary emergencies
- Dermatologic emergencies
- Infectious disease emergencies
- Internal medic emergencies

## **The ECG Course of CEC**

This course is addressed to all doctors who want to deepen or refresh their understanding of how the ECG functions. This review is very interesting for beginners as well as for professionals. We go through all facts concerning the ECG: Cardiac physiology, Electrophysiology, use of the different equipments and treatment of the different heart diseases. We want you to understand the pathophysiological mechanisms leading to arrhythmias, recognize them in the ECG and react quickly in a proper way. A special speech is given on pacemakers. After the course a special training can be done with authentic cases.

After that course you will feel very safe in reading ECGs and treating cardiac arrhythmias. This course includes the following speeches:

### **Introction**

- Electrophysiolgic Basics
- Heart Conduction system
- Action Potential
- Meaning of different Leads

### **Determination off he heart axis**

#### **ECG Basics**

- Sinusrhythm
- Atrial and Atrioventricular Conduction
- Ventricular Conduction and Recovery

### **Supraventricular Tachycardias**

### **Ventricular Tachyarrhythmias**

### **Bradyarrhythmias, Conduction Disturbances & Escape Rhythms**

### **ECG Alterations in Myocardial infarction and Pulmonary embolism**

### **Cardiac Pacemaker**

### **Cardiac emergencies**

### **Treatment of Arryhythmias**

### **ECG cases**