



Mandatory Courses and Structured Tutorial Program for HKCA (IC) Trainees

Mandatory Courses *

1. **Basic Assessment & Support in Intensive Care (BASIC) course**
2. **Exposure to Anaesthesia Safety and Emergency (EASE) course**
3. **Advanced Cardiac Life Support (ACLS) course** or equivalent**
4. **Trauma course** (any one of below or equivalent**):
 - Advanced Trauma Life Support (ATLS) course
 - International Trauma Life Support (ITLS) course
5. **Advanced Airway course** (any one of below or equivalent**):
 - Advanced Difficult Airway Management Workshop for Doctors (ADAM-D) by HKCA
 - Airway Management Beyond Basic Course by CUHK
6. **Echocardiography course** (any one of below or equivalent**):
 - Echo Hong Kong Hands-on Workshop by Ruttonjee and TSK Hospitals
 - Echocardiography Workshop by HKCA
 - Rapid Assessment by Cardiac Echo (RACE) course by HKCEM
 - Intermediate Echocardiography Course (IEC) by HKCEM
 - WINFOCUS's Critical Care Echocardiography Course by HKCEM
 - Beyond Basic – Transthoracic Echo course by CUHK

*Mandatory courses are chosen based on suitability, affordability, accessibility, sustainability and must be of acceptable standard. Topics covered by these courses will not be covered again in topic tutorials.

** If a trainee has attended a course deemed to be equivalent to one of the above courses can apply to have it assessed and approved by the Board of Intensive Care Medicine.

Recommended Courses

- Postgraduate Diploma in Infectious Diseases (PDipID) and Infectious Diseases Courses
- Basic Clinical Toxicology Course by HKEM
- Critical Care Respiratory Course by PYNEH ICU
- Critical Care Nephrology Course by PYNEH ICU
- Intensive Care Nephrology Beyond BASIC course by CUHK



- HAHO ECMO Simulation Course
- APELSO Adult ECMO Training Course
- Support & Management of Brain Dead Patient and Donor Awareness Course

Topic Tutorials

General ICU

1. Severity of illness and outcome scoring systems in ICU
2. Statistics
3. Basic ethical principles in critical care
4. Transport of the critically ill patients
5. Principles of fluid/blood product therapy
6. Nutrition
7. Acid-base and electrolyte disturbances

Cardiac

8. Shock and hemodynamic monitoring
9. Cardiogenic shock and acute heart failure
10. Extracorporeal life support for cardiopulmonary failure
11. Intensive care after cardiac surgery
12. Post cardiac arrest management and prognostication
13. Acute coronary syndromes

Respiratory

14. Principles of non-invasive and invasive mechanical ventilation
15. ARDS and difficult ventilation
16. Asthma/COAD and difficult ventilation
17. Management of pulmonary complications: massive haemoptysis, pneumothorax, pleural effusion
18. Venous thromboembolism, pulmonary embolism and other embolic syndromes

GI and hepatobiliary

19. Acute liver failure
20. Abdominal surgical catastrophes and abdominal compartment syndrome

Renal

21. Acute kidney injury
22. Renal replacement therapy in ICU



Neurology

23. Status epilepticus
24. Sedation and pain management in ICU
25. Management of neurosurgical cases
26. Brain death and management of organ donor

Infections

27. Infection control and principles of use of antimicrobials
28. Severe sepsis and septic shock
29. Community acquired pneumonia
30. Nosocomial infections
31. Sepsis in immunocompromised patients

Miscellaneous

32. Management of acute poisoning
33. Endocrine and metabolic emergencies
34. Obstetrics emergencies
35. Critically ill child
36. Ultrasound in ICU

Exam Preparation Tutorials

1. Written
2. ECG/Data interpretation/Radiology
3. Viva
4. Hot cases (quarterly)

Minimum requirement for HKCA (IC) trainees before exit assessment

All trainees who register after 1st July 2017 are required to complete the following during the course of basic or higher vocational training:

1. All 6 mandatory courses
2. All 36 out of 36 topic tutorials

Trainees who register before 1st July 2017 can either follow the old regulations (attend 48 tutorials) or the new regulations (6 mandatory courses + 36 topic tutorials) regarding the tutorials as stated above.

Endorsed by BOIC in April 2017

Revised and endorsed by BOIC in August 2017