

香港麻醉科醫學院 THE HONG KONG COLLEGE OF ANAESTHESIOLOGISTS

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(Incorporated as a Charitable Organisation with Limited Liability in Hong Kong since 1989)

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
 - Advanced Surgical Trauma (ASTC) 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

Recommended Courses

- Postgraduate Diploma in Infectious Diseases (PDipID) and Infectious Diseases Courses
- Basic Clinical Toxicology Course by HKEM
- Critical Care Nephrology Course by PYNEH ICU
- Advanced Simulation Training in Mechanical Ventilation (ASTIM) Course by HKJC-ILCM
- Beyond BASIC Mechanical Ventilator Course by CUHK
- Intensive Care Nephrology Beyond BASIC Course by CUHK
- HAHO ECMO & ECMC Simulation Course
- APELSO Adult ECMO Training Course
- Support & Management of Brain Dead Patient and Donor Awareness Course

^{*}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.



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Mandatory Topic Tutorials (via eLearning platform)

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. Critical care nutrition
- 7. Acid-base and electrolyte disturbances

Cardiac

- 8. Shock and hemodynamic monitoring
- 9. Cardiogenic shock and acute decompensated 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. Management of ARDS
- 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 and acute on chronic 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



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- 24. Acute ischaemic stroke and neuromuscular disorders
- 25. Sedation and pain management in ICU
- 26. Management of neurosurgical cases
- 27. Brain death and management of organ donor

Infections

- 28. Infection control and principles of use of antimicrobials
- 29. Sepsis management
- 30. Community acquired pneumonia
- 31. Nosocomial infections in ICU
- 32. Sepsis in immunocompromised patients

Miscellaneous

- 33. Management of acute poisoning
- 34. Endocrine and metabolic emergencies
- 35. Haematological issues in ICU
- 36. Obstetrics emergencies
- 37. Critically ill child
- 38. Ultrasound in ICU

Exam Preparation Tutorials (via zoom or face-to-face)

- 1. Communications
- 2. ECG/Data interpretation/Radiology
- 3. Viva
- 4. Hot cases

Minimum requirement for HKCA (IC) trainees before exit assessment

- 1. Attend all 6 mandatory courses
- 2. Topic tutorials
 - eLearning tutorials would be accessible to all trainees but attendance would only count during higher training.
 - For trainees progressing to higher training after 1/7/2024, attendance to all 38 topic tutorials (either via zoom or eLearning) is required.
 - For trainees progressing to higher training before 1/7/2024, at least 36 out of 38 topic tutorials (either via zoom or eLearning) is required.

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