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The background of the page is a photograph of a medical professional, likely a sonographer, performing an ultrasound on a patient's chest. The image is overlaid with a semi-transparent red filter. On the right side, there are large, stylized geometric shapes: a light blue parallelogram and a red triangle pointing downwards. The text 'Certification Course in' is in white, while 'INTENSIVE CARE ECHOCARDIOLOGY AND BASIC LUNG ULTRASOUND' is in large, bold, white capital letters.

# Certification Course in **INTENSIVE CARE ECHOCARDIOLOGY AND BASIC LUNG ULTRASOUND**

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# ABOUT

## Association for Cardiothoracic Anaesthesia and Critical Care

Association for Cardiothoracic Anaesthesia and Critical Care (ACTACC) was founded by Ray Latimer on 25th May 1984 in Cambridge. He was supported by his colleagues Don Bethune and Ian Hardy, all of whom were based at Papworth Hospital. It was an entirely informal meeting of United Kingdom anaesthetists practicing cardiac or thoracic anesthesia and took place at the Cambridge School of Clinical Medicine, New Addenbrooke's Hospital. The occasion was such a success that it was resolved that the annual Spring meeting of the new Association should always take place in Cambridge, while an Autumn meeting would be arranged elsewhere within the United Kingdom. The Cambridge meeting has continued in its original format of registrar papers, invited speakers and dinner at one of the splendid colleges, for the last fourteen years. The autumn meetings have ranged throughout England, with excursions into Scotland and Wales. The main aim of the organization is to promote the highest standard of management and care for patients suffering from cardiothoracic disorders, and in particular those undergoing cardiac or thoracic surgery and to further the development of the art and science of cardiothoracic anesthesia. To that end the ACTACC is committed to hold regular meetings, encourage the presentation of original research, encourage national and international links with like-minded groups, be active in all matters concerning the training of future cardiothoracic anaesthetists and represent the views of cardiothoracic anaesthetists to any other interested parties.





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# ABOUT

## Health Education England

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Health Education England (HEE) is a part of the NHS constitution involved in supporting the delivery of excellent care in health care with incremental health improvement for patients and the public of England. With broad based topics for upskilling doctors, its elfh program, is the state of the art elearning for health-care which has more than 100 programs where more than 160,000 students in real time access it, developing healthcare staff in a range of healthcare and community settings".







## **SESSION 01 : WHICH PATIENTS BENEFIT FROM BASIC ECHO?**

1.1 | Which patients benefit from basic echo?

## **SESSION 02 : PHYSICS OF ULTRASOUND AND IMAGE OPTIMISATION**

2.1 | Physics of ultrasound and image optimisation

## **SESSION 03 : ANATOMY AND BASIC VIEWS**

3.1 | Anatomy and basic views

## **SESSION 04 : LEFT VENTRICULAR FUNCTION**

4.1 | Left ventricular function

## **SESSION 05 : RIGHT VENTRICULAR FUNCTION**

5.1 | Right ventricular function

## **SESSION 06 : PATHOLOGY**

6.1 | Pathology





## SESSION 07 : BASIC LUNG ULTRASOUND

### 7.1 | Basic lung ultrasound

## SESSION 08 : LIMITATIONS AND PITFALLS

### 8.1 | Limitations and pitfalls

