

Level 1 Echocardiography Course

Image Acquisition, Interpretation and Clinical Application

Supporting preparation for the BSE Level 1 accreditation pathway.

DATE

Saturday 5 Dec 2026

TIME

08:00 - 17:00

VENUE

Delta Hotels, Peterborough

CAPACITY

Up to 24



Course highlights

- Practical teaching mapped to the BSE Level 1 curriculum.
- Supervised practical scanning using live models and HeartWorks simulators.
- Small-group practical teaching with dedicated faculty supervision.
- HeartWorks pathology scanning integrated across the course.
- Structured image interpretation, reporting and escalation guidance.

Course delivery

Course Lead
Dr Aalekh Prasad
BSE Level 1 accredited | BSE number 34310

Practical faculty
Cardiac physiologists supporting live scanning stations.

Technical partners
GE HealthCare: machine familiarisation and image optimisation.
HeartWorks: simulator equipment and technical support.
Clinical teaching remains faculty-led.

Learning outcomes

By the end of the course, candidates should be able to:

01

Optimise a TTE image using probe selection, depth, gain, focus and sector width.

02

Acquire the standard transthoracic views required within the BSE Level 1 dataset.

03

Recognise normal anatomy and identify important gross cardiac pathology.

04

Apply a systematic approach to image interpretation and structured reporting.

05

Recognise technical limitations and know when expert echocardiography review is required.

Target audience

Anyone with an interest in transthoracic echocardiography, including those working in Emergency Medicine, Anaesthesia, Intensive Care, Acute and General Medicine, and Cardiology.

Programme

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COURSE SUPPORTED BY



surgicalscience

Time	Group 1	Group 2
08:00 - 08:30	Registration and introductions Pre-course materials and knowledge check	
08:30 - 09:00	BSE Level 1 principles Pathway, scope and limitations; a systematic approach to bedside TTE and normal image orientation	
09:00 - 09:45	Image optimisation with GE HealthCare Physics, probe selection, Doppler, machine familiarisation, depth, gain, focus and sector width	
09:45 - 10:00	Refreshment break	
10:00 - 12:00	Supervised practical scanning - small-group rotations. Rotation 1: 10:00 - 10:40 Rotation 2: 10:40 - 11:20 Rotation 3: 11:20 - 12:00 Live scanning on models and HeartWorks simulation.	
12:00 - 13:00	Lunch	
13:00 - 14:30	Formative practical circuit - Block 1 Rotations through live scanning, HeartWorks simulation and computer-based video stations.	Image interpretation and reporting Pathology videos, case-based interpretation, structured reporting and a short break.
14:30 - 15:00	Refreshment break and circuit changeover	
15:00 - 16:30	Image interpretation and reporting Pathology videos, case-based interpretation, structured reporting and a short break.	Formative practical circuit - Block 2 Rotations through live scanning, HeartWorks simulation and computer-based video stations.
16:30 - 17:00	Whole-group review and close Faculty feedback, post-course knowledge check, key messages, accreditation guidance, questions and anonymised evaluation.	

Educational governance: all clinical images and cases will be fully anonymised. Delegate feedback will be collected anonymously. This course provides education only and does not replace the formal BSE accreditation pathway.