Modular structure of the Echocardiography in ICU training programme. The training programme comprises emergency-introductory, basic and intermediate stages, each one with its own modules. Theoretical and practical content of each module is delivered respectively through blended-learning and supervised practice.

<table>
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<tr>
<th>MODULE TYPE</th>
<th>MODULES</th>
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| Introductory & Emergency modules  | - Principles of US  
- Principles of Doppler  
- “Knobology”  
- Pitfalls and Artifacts in Echocardiography  
- Patient safety & consent  
- Sonoanatomy of the Heart  
- ACLS Conformed Focused Echo (FEEL)  
- Screening Focused Echo (FATE) |
| Basic modules                     | - Qualitative evaluation of the Left ventricle (LV)  
- Qualitative evaluation of the Right ventricle (RV)  
- Measuring Inferior (IVC) &/or Superior (SVC) Vena Cava diameter  
- Measurement of LV Outflow Tract (LVOT) peak velocity and VTI  
- Measurement of Cardiac Output (CO)  
- Estimation of peak Pulmonary Artery Pressure (PAPs) |
| Intermediate modules: Assessment of Ventricular function | - Quantification of LV systolic function  
- Quantification of RV systolic function  
- LV diastolic function  
- RV diastolic function  
- Estimation of Left Atrial Pressure (LAP)  
- Detection of Myocardial ischemia |
| Intermediate modules: Valvular Disease | - Aortic Stenosis (AS)  
- Aortic Regurgitation (AR)  
- Mitral Regurgitation (MR)  
- Mitral Stenosis (MS)  
- Tricuspid valve (TV)  
- Pulmonary valve (PV) |
| Intermediate modules: Clinical scenarios | - General Approach to the Shocked patient  
- Hypovolaemia, Volume Responsiveness & Filling Status  
- Tamponade  
- The Sepsis Syndromes  
- Effects of Preload and Afterload  
- Hypoxaemia  
- Anatomical shunt  
- Acute Cor Pulmonale (Pulmonary Embolism, ARDS)  
- Complications of Acute Myocardial Infarction  
- Chest trauma  
- Failure to wean from Mechanical Ventilation  
- Hemodynamic Measurements |