In today’s competitive and dynamic healthcare climate, it is critical to use your medical imaging systems to their fullest potential. At Philips, we believe clinical education is key to getting the most out of your investment. It is vital that staff stay current on the latest clinical procedures and technologies. With that in mind, our comprehensive clinical education programs are designed to support clinical excellence, increase use of advanced system features, instill physician confidence in the quality of exams, enhance workflow and productivity, and foster professional growth and teamwork – ultimately, to deliver an outstanding patient experience.

**Location and date**
Pointe Hilton Tapatio Cliffs Resort  
Phoenix, Arizona  
October 20 – 24, 2015

**Registration**
Register via phone at 1-800-522-7022 or online at [www.learningconnection.philips.com/en/ultrasound-clinical-education-symposiums](http://www.learningconnection.philips.com/en/ultrasound-clinical-education-symposiums)
- Select the symposium and your course(s)
- Complete the online registration form
Clinical Education

Our team of highly skilled Clinical Education Specialists delivers and supports our courses in a unique learning environment of small class sizes, small student-to-instructor ratios and small student-to-system ratios. Our instructors train with luminaries in the field to understand how our technology is applied in daily patient care settings. The Philips team has educated more than 15,000 customers since 2008.

**Advanced Live Intraoperative 3D TEE (CV326)**
October 20, 2015
This one-day course will focus on advanced principles of image acquisition, optimization and display. A more in-depth discussion of the clinical utility of intraoperative 3D TEE using a primary case-based format is also included.

**Live 3D in Complex Congenital Heart Disease (CV310)**
October 20, 2015
This one-day course is designed to provide pediatric cardiologists, adult congenital cardiologists and cardiac sonographers with the fundamental skills required to obtain and analyze high-quality live transthoracic 3D images of complex congenital heart issues. **5.75 CEUs**

**Advanced Customer Training Cardiovascular 2D and 3D Live EPIQ (CV213)***
October 20 – 21, 2015
This two-day program provides a solid foundation in the principles and clinical applications for cardiac analysis on the EPIQ ultrasound system.

Day one – This class is an introduction to image optimization and acquisition on the EPIQ ultrasound system as well as QLAB 2D quantification. **5.5 CEUs**

Day two – This class is an introduction to xMATRIX technology and functionality on the EPIQ system. Participants will learn 3D image acquisition and optimization on EPIQ during live scanning workshops. **6 CEUs**

**Advanced Customer Training General Imaging 2D and 3D EPIQ (GI213)***
October 20 – 21, 2015
This two-day program provides a solid foundation in the principles and clinical applications for general imaging, obstetrics and basic vascular exams on the EPIQ ultrasound system.

Day one provides an introduction to image optimization and acquisition on the EPIQ ultrasound system. The course will also cover a variety of advanced features which improve diagnostic confidence and workflow. **5 CEUs**

Day two provides an introduction to the Volume Imaging applications of the EPIQ ultrasound system. Participants will learn 3D image acquisition, optimization and manipulation on EPIQ through detailed lectures and instructor led hands-on scanning workshops. **5.5 CEUs**

**Advanced Customer Training General Imaging 2D and 3D v2012 (GI203)**
October 20 – 21, 2015
Advanced Customer Training General Imaging 2D and 3D is a two-day course consisting of intensive training on the Volume Imaging applications associated with the iU22 ultrasound system, including the xMATRIX technology. **12 CEUs**

**Principles and Essentials of Live 3D Echocardiography (CV360)**
October 20 – 21, 2015
This two-day course is designed to provide cardiologists, cardiac anesthesiologists and cardiac sonographers with the understanding of how live 3D technology contributes to patient care, what conditions and procedures are diagnosed and facilitated by 3D technology, and how to apply live 3D, xPlane and 3D data analysis in the cathlab and in the OR for those interventional and operative procedures. **14.5 CEUs**

**Thinking in 3D (CV302)**
October 20 – 22, 2015
This three-day course takes participants through the basics of anatomy and physiology pertinent to chest wall and TEE 3D echo. The course emphasizes anatomy (through detailed anatomic dissections and cropping from an extensive library of clinical 3D images). The intensive hands-on sessions offer personal attention to students and their learning. **17 CEUs**
Live Intraoperative 3D TEE (CV325)
October 21 – 22, 2015
This two-day course is designed to provide anesthesiologists, cardiologists, and cardiac sonographers with the fundamental skills required to obtain high-quality Live 3D TEE images and the confidence to immediately incorporate Live 3D TEE into their practice. 9 CEUs

Live 3D Transesophageal Echocardiography of Congenital Heart Disease (CV328)
October 21 – 22, 2015
This two-day course is designed to provide pediatric cardiologists, adult congenital cardiologists and cardiac sonographers with the fundamental skills required to obtain and analyze high-quality live 3D TEE images. 15 CEUs

Advanced Fetal Doppler Assessment (GI-WHC304)
October 22, 2015
This is a one-day, physician-led course that will provide the learner with information on the clinical applications and techniques of fetal Doppler evaluation and interpretation. 7.5 CEUs

Mitral Valve Imaging (CV361)
October 22, 2015
The one-day course is designed to provide heart surgeons, interventional cardiologists, non-interventional cardiologists, cardiac anesthesiologists and cardiac sonographers with the fundamental skills required to obtain and analyze high-quality Live 3D TEE images. The course focuses on image acquisition and analysis needed for interventional Mitral Valve procedures. The small class size of this course enables participants to closely interact with the instructor and to receive individual hands-on training, with special emphasis on mitral valve apparatus Q Lab analysis. 8 CEUs

Live 3D TEE Practical Application (CV320)
October 22 – 23, 2015
Live 3D TEE provides cardiologists, anesthesiologists, and cardiac surgeons with innovative, inspiring and realistic views to aid in patient care. This two-day course includes lectures, case presentations, informal discussions, and hands-on workshops. In addition, wet lab porcine heart dissections enhance understanding of 3D cardiac anatomy. 9.5 CEUs

EPIQ 3D University Essentials (CV303)
October 22 – 24, 2015
The three-day course is designed to provide a solid foundation in Live 3D echocardiography for physicians and cardiac sonographers who are new 3D users. This course provides a spectrum of situations both physicians and sonographers can use and reference. By increasing familiarity with clinical applications of Live 3D echocardiography, students develop a comfort level to make 3D part of their scanning protocols. 14 CEUs

Advanced Customer Training Cardiovascular 2D v2012 (CV200)
October 23, 2015
This one-day class is an introduction to QLAB 2D quantification. QLAB is a software program that allows users to perform measurements on Tissue Doppler Images (TDI) and speckle information within 2D datasets. The QLAB programs covered in this session are SQ (Strain Quantification), TMAD (Tissue Motion Annular Displacement), and CMQ (Cardiac Motion Quantification). This class also includes image acquisition and optimization on the iE33. 5.5 CEUs

Advanced Customer Training Vascular EPIQ (VASC222)
October 23, 2015
This one-day course provides an introduction to vascular image optimization and acquisition on the EPIQ ultrasound system. The course will also cover a variety of advanced features which improve diagnostic confidence and workflow. Educational material will be presented in the form of lectures as well as instructor led hands-on scanning sessions. 6.5 CEUs

Extracranial Vascular Duplex Imaging (VASC205)
October 23, 2015
This one-day course for noninvasive vascular ultrasound technologists is an ideal way for sonographers to learn how to image the carotid arteries. Lectures will provide essential background information and a supervised hands-on workshop will help each attendee master the fundamentals of performing a carotid duplex scan. 7.5 CEUs

Understanding Myocardial Mechanics (CV350)
October 23, 2015
This is the first Philips course solely dedicated to the assessment of myocardial mechanics and strain imaging by speckle tracking echocardiography (STE). Attendees will begin the program by learning the basics of myocardial function including how to interpret normal and abnormal strain waveforms. The program will extend to lectures and live demonstrations including technical tips and emphasis on the caveats, pearls and pitfalls of the application. 5 CEUs

Ultrasound of Advanced Renovascular Disease (VASC380)
October 23, 2015
This full day course for noninvasive vascular ultrasound technologists is developed to meet the climbing need to standardize performance protocols and diagnostic criteria for noninvasive evaluation of complex renal pathologies. Program topics include a brief review of renal anatomy and physiology, pathophysiology of and sonographic evaluation of renal artery stenosis, chronic and end-stage renal disease, dialysis access arterio-venous fistula evaluation and renal transplantation. 7.75 CEUs
Understanding Myocardial Mechanics 2 (CV351)
October 24, 2015
The course begins with a review of the basic understanding and essential measurements required for the assessment of diastolic function. Technical aspects including how to obtain quality tracings and measurements will prepare the attendee for the live scanning sessions. In addition, the program will include cases demonstrating concordant and discordant information and how to troubleshoot diagnosis. **5 CEUs**

Advanced Customer Training Cardiovascular Live 3D v2012 (CV202)
October 24, 2015
The class is an introduction to xMATRIX technology and functionality. Participants will learn 3D image acquisition and optimization on the iE33 during live scanning workshops. The course also provides an introduction to 3D image quantification utilizing the 3DQ (3D Quantification), 3DQA (3D Quantification Advanced) plug-ins. These QLAB programs allow the user to quantify various parameters on 3D datasets, including EF, areas, distances, timing and volumes. **5 CEUs**

3D Cardiac Anatomy for Sonographers (FUN101)
October 24, 2015
This is a great opportunity for sonographers to learn cardiac anatomy as perhaps they never have before. Course objectives will be met through detailed anatomy lectures that include many 3D cardiac images as well as a guided porcine dissection. The one-day course will also include a session examining 3D ultrasound cardiac anatomic details through digital dissection of 3D volumes. **8 CEUs**

Introduction to Transcranial Doppler Imaging (VASC370)
October 24, 2015
Transcranial Doppler Imaging (TCDI) is a non-invasive vascular duplex test used to evaluate the circle of Willis and the vertebrobasilar arteries using various acoustic windows. This one-day course provides the basic knowledge needed to begin scanning the intracerebral arteries. Interesting case studies and supervised hands-on sessions are also included. **5 CEUs**

Volume Imaging – The GYN Patient (GI-WHC305)
October 24, 2015
This is a one-day, physician-led course that will provide the learner with information on the technology and technique of 3D/4D volume imaging including the sonographic appearance of gynecological variants. Educational material will be presented in the form of lectures, case presentations, data manipulation and scanning sessions. **6.75 CEUs**

Fetal Echocardiography University (GI-WHC308)
October 24, 2015
This is a one-day, physician-led advanced course that will provide the learner a comprehensive overview of the clinical applications, techniques and interpretation of Fetal Echo imaging to aid in the diagnosis of structural malformations of the heart. **7.75 CEUs**

*Customer can take one or both days.

For more information visit
[www.learningconnection.philips.com/ultrasound](http://www.learningconnection.philips.com/ultrasound)