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.
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 25,000 customers since 2008.

Understanding Myocardial Mechanics (CV350)
August 27, 2016
The one-day course is designed to provide cardiologists and sonographers with the fundamental skills required to analyze high-quality 2D images for myocardial performance. This is the first Philips course solely dedicated to the assessment of myocardial mechanics and strain imaging by speckle tracking echocardiography (STE). The course includes both basic and advanced teaching of myocardial function and is designed for physicians and sonographers that are interested in improving their skills in the interpretation of strain imaging. 5 CEUs

Peripheral Venous Duplex Sonography (VASC333)
August 27, 2016
The one-day, physician-led course will be delivered through lectures, case studies and interactive hands-on sessions. Peripheral Venous Duplex sonography is a non-invasive method used to evaluate the venous anatomy of the limbs, the central veins of the head and neck, the pelvic veins and the inferior vena cava. This method of evaluation is a very useful tool for the identification of superficial and deep venous thrombosis, venous insufficiency assessment, and vein mapping for venous grafting. 7 CEUs

Volume Imaging – The GYN Patient (GI-WHC305)
August 27, 2016
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

Ultrasound Guided Peripheral Vascular Access (POC116)
August 27, 2016. Evening Course (6-8pm)
The course will review the anatomy and sonographic appearance of the upper extremity peripheral veins often used for vascular access. Attendees will review the steps in performing ultrasound guided vascular access for intravenous (IV) cannulation. Using vascular access phantoms, attendees will also have the opportunity to perform needle access under ultrasound guidance. 1.5 CEUs

Comprehensive 3D Imaging and Interventions of the Mitral Valve (CV324)
August 27-28, 2016
During this two-day course, participants will be introduced to 3D image acquisition for mitral valve disease. Non-invasive and invasive cardiologists, sonographers, cardiac anesthesiologists and cardiac surgeons will gain insight into clinical applications of this technique and a process to incorporate this technology into daily clinical practice. A broad spectrum of clinical applications of 3D TEE will be covered, including 3D assessment of the normal and abnormal mitral valve. 1.5 CEUs

Musculoskeletal Ultrasound University (GI-MSK306)
August 27-28, 2016
The Musculoskeletal Ultrasound University is a two-day, physician-led course that will provide a comprehensive overview of the practical applications, techniques, and interpretation of MSK imaging. 11.5 CEUs

Understanding Myocardial Mechanics 2 (CV351)
August 28, 2016
The one-day 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. Live scanning workshops will demonstrate what and where to measure for diastolic evaluations. 5 CEUs

Extracranial Vascular Duplex Imaging (VASC205)
August 28, 2016
This Philips Clinical Education one-day course for non-invasive 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

Ultrasound of Advanced Renovascular Disease (VASC380)
August 28, 2016
This Philips Clinical Education full-day course for non-invasive 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

Central Line Placement with Ultrasound (POC110)
August 28, 2016. Evening Course (6-9pm)
The course reviews the central venous anatomy including femoral, jugular, and subclavian veins. Attendees will also review ultrasound protocol for imaging and identification of the central veins before, during and after needle insertion. Technical approach and pitfalls are also discussed. Using vascular access phantoms, attendees will also have the opportunity to perform central line placement under ultrasound guidance. 1.5 CEUs
Introduction to Transcranial Doppler Imaging (VASC370)
August 29, 2016
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. The 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

Evaluation of Stents with Ultrasound (VASC202)
August 29, 2016
The full-day course for noninvasive vascular diagnosis specialists is developed to meet the climbing need to standardize performance protocols and diagnostic criteria for non-invasive vascular stent evaluations. The course includes lectures, interactive case study presentations and a hands-on scanning session. 8 CEUs

Critical Care Lung Ultrasound (POC114)
August 29, 2016. Evening Course (6-9pm)
The course reviews the use of ultrasound to identify lung and pleural space abnormalities including pleural effusion, pneumothorax, atelectasis, and lung consolidation. Learners will also review the clinical criteria and process for ultrasound guided chest tube insertion and the BLUE protocol (Bedside Lung Ultrasound in Emergency) for acute respiratory failure in critical care. Attendees will have the opportunity to perform lung ultrasound on live models. 1.5 CEUs

EPIQ 3D University Essentials – Congenital Edition (CV304)
August 29–30, 2016
This two-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. 10.75 CEUs

Advanced Customer Training General Imaging
2D & 3D EPIQ (GI213)*
August 29–30, 2016
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. Educational material will be presented in the form of lectures as well as instructor led hands-on scanning sessions. 5.50 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. The course also provides an overview of xMATRIX technology and functionality including Panoramic Volume Imaging. 5.50 CEUs

Liver Elastography University (GI310)
August 30, 2016
The Liver Elastography University is a one-day course that will be co-delivered by a physician and the Ultrasound Clinical Education Specialists. The course will provide an overview of image optimization and a review of general liver ultrasound including color and pulsed Doppler. Additionally, the physician-led portion will provide a comprehensive overview of the practical applications, techniques and interpretation of Liver Elastography. 8.50 CEUs

FAST Exams (Focused Assessment with Sonography in Trauma) (POC112)
August 30, 2016. Evening Course (6–8pm)
The course reviews the clinical indication for ultrasound use in traumatic injury, the appropriate sonographic views in the FAST protocol, and normal and abnormal sonographic findings. Ultrasound views discussed include the right sided Morrison’s pouch, the left perisplenic view, imaging of the pericardium and the pelvis. Attendees will have the opportunity to practice the FAST protocol on live models using Philips ultrasound imaging systems. 1.5 CEUs
Visual Ultrasound Physics Registry Review (FUN102)  
August 30-31, 2016  
This is a registry review course designed to help those who plan to take the physics portion of the ARDMS or CCI examinations regardless of the specialty of ultrasound practiced. Topics covered include basic math, introduction to ultrasound pulses, how ultrasound interacts with matter, pulsed wave instruments, transducers, Doppler, artifacts, quality assurance, and bioeffects. **15 CEUs**

Live 3D in Complex Congenital Heart Disease (CV310)  
August 31, 2016  
The 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 Vascular EPIQ (VASC222)  
August 31, 2016  
The 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**

Arterial Duplex Imaging of the Extremities (VASC207)  
August 31, 2016  
The one-day course is designed to help sonographers learn the basic skills necessary to begin scanning the major arteries of the arms, legs, and the distal abdominal aorta in the abdomen with ultrasound. This learning experience consists of lectures, demonstrations, and supervised hands-on sessions using live models. Lectures will explain arterial anatomy of the legs, arms, and the distal aorta, how an arterial exam is performed, as well as provides visual examples of arterial diseases. **5.75 CEUs**

Ultrasound in Critical Care (POC218)  
August 31, 2016  
The intense, comprehensive one-day course focuses on the use of ultrasound in critical care settings. Attendees will explore four topics relating to ultrasound as a diagnostic tool in both the emergency room and critical care units. Hands-on workshops will include the use of live models as well as ultrasound phantoms for peripheral vascular and central line access. **7.5 CEUs**

* Customer can take one or both days

For more information visit  
www.learningconnection.philips.com/ultrasound