Course Description
This two-day program 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. Lecture topics covered include indications for the exam, carotid artery anatomy, signs and symptoms of carotid disease, carotid disease management, instrumentation, B-mode imaging, as well as Color and Pulsed Wave Doppler exam of the carotids. The hands-on workshop will take a step-by-step approach to imaging by sonographers with many years of experience.

This course is designed for practicing sonographers interested in learning how to perform a carotid ultrasound exam.

Prerequisites
Must be a practicing sonographer.

Locations
Course will be held at the various Philips training centers located in Atlanta, GA; Bothell, WA; Cleveland, OH.
Introduction to Carotid Duplex Scanning (Vasc 206)

Course objectives
Upon successful completion of this program, you should be able to:
• Discuss the indications for exam, risk factors, as well as signs and symptoms
• Discuss intra and extracranial carotid, subclavian, aortic arch, and vertebral anatomy
• Discuss how carotid disease forms and how it is managed
• Discuss what Intimal Medial Thickening is and how it is measured
• Explain key clinical trials that have taken place
• Explain other examinations used to confirm carotid duplex results
• Explain the equipment needed to perform a quality carotid duplex scan
• Explain a basic carotid duplex scan protocol
• Explain how system controls are optimized for B-Mode, color, and pulsed wave Doppler
• Explain how views are documented
• Describe how carotid plaque appears on an ultrasound exam
• Describe how significant carotid disease alters color and pulsed wave Doppler results
• Describe according to published literature the range of velocities associated with varying degrees of carotid stenosis
• Discuss the factors that affect blood flow volume and velocity
• Discuss Doppler tools that improve sensitivity to visualizing flow
• Discuss research done on the range of velocities associated with ranges of stenosis
• Describe the abnormal carotid conditions that can be visualized other than stenosis

Faculty
Philips Clinical Education Specialists

For more information
Contact Philips Ultrasound Clinical Education at 800-522-7022 and visit our education portal: www.philips.com/ultrasoundclinicaleducation

Please visit www.philips.com/clinicaleducation