

Avante | Health
Solutions

ULTRASOUND

2022
**TRAINING ACADEMY
COURSES**

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WELCOME

Thank you for choosing Avante Health Solutions as your training partner. Avante Health Solutions is committed to empowering the Biomed community with outstanding training programs. We believe the more knowledge that we can pass on to our community, the better the care for all patients.

By providing cost effective, hands-on and practical training, engineers are immediately able to impact day-to-day operations by maintaining equipment up-time.

Benefits of ultrasound training:

- AAMI CEU approved
- Small classes to increase instructor-to-student ratios
- Comprehensive hands-on course instruction
- 24/7 Technical Support
- Cost-effective
- Efficient course structure gets engineers back to work quickly
- Industry expert instructors
- Ultrasound 101 self-paced video class
- Preventive maintenance instruction



INFORMATION

ENROLLMENT

To book a seat in a training course, please complete the enclosed enrollment form and send it with a purchase order to:

Email: clt.training@avantehs.com

Other payment: Prepay options are accepted. Please refer to the enrollment form for details.

START AND FINISH TIMES

All classes begin promptly at 9:00 am and finish at 5:00 pm.

CLASS SIZE

Classes will be limited to a maximum of 8 attendees due to instructor and equipment ratios conducive to maximum learning.

CLASS MATERIALS

Each student needs to come prepared with a notebook and writing instrument; notebook PC is optional (all other study information will be provided by the ultrasound instructor). Complimentary WiFi is available.

LOCATION

All courses take place at our Concord, NC facility at 1040-A Derita Road. The nearest airport is Charlotte Douglas International (CLT).

CANCELLATION

Cancellations **MUST be given 21 days in advance.**

Refunds will not be given for cancellations received after the 21-day window. Classes may be cancelled or rescheduled due to low attendance, equipment availability or poor weather conditions. Refunds will be issued or credits provided for future classes.

EXPENSES

Students are responsible for all travel-related expenses, including airfare, transportation, meals, and lodging. Avante Health Solutions will provide lunch during class hours.

ENTERTAINMENT

Charlotte is conveniently located at the junction of I-77 and I-85 near the South Carolina border. Now the largest city in the state, Charlotte is well known for great food, shopping, and a variety of entertainment options. Home to the Carolina Panthers, Charlotte Hornets, Charlotte Checkers and NASCAR, there will never be a dull moment for the sports fanatic. Students will have the opportunity to explore activities from whitewater rafting at the U.S. National Whitewater Center to a beautiful nature walk at one of Charlotte's local parks. With plenty of things to do, Charlotte offers transportation by taxi, bus, and now the new LYNX blue line light rail. Welcome to the Queen City!!

HOTEL INFORMATION

RECOMMENDED HOTELS: (Close Proximity to Avante Health Solutions)

Hampton Inn & Suites Charlotte/Concord _____ (704) 979-5600
9850 Weddington Rd Ext, Concord, NC 28027 (3.3 Miles away)
hilton.com **\$114 Rate - Use Corp ID# 0003229151**

Courtyard by Marriott Charlotte/Concord _____ (704) 453-2600
7201 Scott Padgett Pkwy, Concord, NC 28027 (3.6 miles away)
marriott.com **\$109 Rate - Use Corp Code: IGV**

Hilton Garden Inn-Charlotte /Concord _____ (704) 979-2900
7831 Gateway Lane NW, Concord, NC 28027 (3.4 miles away)
hiltongardeninn3.hilton.com **\$144 Rate - Use Corp Code: IGV**

Homewood Suites-Concord/Charlotte _____ (980) 313-3100
7300 Scott Padgett Pkwy, Concord, NC 28027 (3.6 miles away)
homewoodsuites3.hilton.com

ALTERNATIVE HOTELS:

Embassy Suites Concord _____ (704) 455-8200
5400 John Q. Hammons Dr NW, Concord 28027 (3.6 miles away)

Residence Inn Concord _____ (704) 454-7862
7601 Scott Padgett Pkwy, Concord, NC 28027 (3.6 miles away)

ULTRASOUND 101

This self-paced video course covers the basic physics and principles of ultrasound. The class provides the theory and understanding behind ultrasound operation. Basic system architecture, transducer types and their applications will also be discussed.

OUTLINE

- Basic theory
- Physics
- System architecture
- Transducer types and applications

The course is available online. Contact Training Coordinator for access.

*Course is prerequisite for platform specific training, unless attendee has at least one year of ultrasound experience.



PHILIPS EPIQ/AFFINITI

The Epiq and Affiniti series are the newest offering for the ultrasound modality manufactured by Philips. The Epiq 5 and Affiniti 50 are primarily general imaging systems, while the Epiq 7 and Affiniti 70 are the premiere cardiac systems. These systems offer excellent image quality and ergonomics. These platform are built on similar architecture of their predecessors the iU22 and iE33.

The Epiq and Affiniti service training course is designed for the ultrasound service professional. This course will focus on the system as it pertains to theory, architecture, block diagrams and functional repair.

OUTLINE

- Basic theory
- System familiarization
- Manual overview
- System architecture and common failures
- Troubleshooting and replacement
- PM procedure
- DICOM connectivity

The course is completely hands-on with labs focusing on scanning techniques, common failures, and board and module replacement.

*Course prerequisite is at least one year of ultrasound experience or completion of Ultrasound 101 course.



GE VIVID/LOGIQ E9

The E9 series are advanced Radiology and Cardiology ultrasound systems manufactured by GE. The system produces outstanding images due to extensive data interpolation performed in the BEP (Back End Processor).

The E9 service training course is designed for the ultrasound service professional. This course will focus on the system as it pertains to theory, architecture, block diagram and functional repair.

OUTLINE

- Basic theory
- System familiarization
- Manual overview
- System architecture and common failures
- Troubleshooting and replacement
- PM procedure
- DICOM connectivity

The course is completely hands-on with labs focusing on scanning techniques, common failures, and board and module replacement.

*Course prerequisite is at least one year of ultrasound experience or completion of Ultrasound 101 course.



GE LOGIQ E10 AND VIVID E95

The GE Logiq E10 and Vivid E95 are the newest offerings in the GE family of ultrasound systems. These systems offer the latest in technology, features and capabilities. These series of machines are based on similar framework and share many of the same hardware and features.

The GE Logiq E10 and Vivid E95 service training course is designed for the ultrasound service professional. This course will focus on the system as it pertains to theory, architecture, block diagram and functional repair.

OUTLINE

- Basic theory
- System familiarization
- Manual overview
- System architecture and common failures
- Troubleshooting and replacement
- PM procedure
- DICOM connectivity

The course is completely hands-on with labs focusing on scanning techniques, common failures, and board and module replacement.

*Course prerequisite is at least one year of ultrasound experience or completion of Ultrasound 101 course.



SIEMENS S2000/SC2000

The S2000 is primarily a radiology and women's health ultrasound system manufactured by Siemens. The SC 2000 is a cardiac-focused version of the S2000. The systems are built on the same framework and share hardware with minor differences focused on specific imaging specialties.

The S2000/SC2000 service training course is designed for the ultrasound service professional. This course will focus on the system as it pertains to theory, architecture, block diagram and functional repair.

OUTLINE

- Basic theory
- System familiarization
- Manual overview
- System architecture and common failures
- Troubleshooting and replacement
- PM procedure
- DICOM connectivity

The course is completely hands-on with labs focusing on scanning techniques, common failures, and board and module replacement.

*Course prerequisite is at least one year of ultrasound experience or completion of Ultrasound 101 course.



PHILIPS IU22/IE33

The iU22 and iE33 are ultrasound platforms manufactured by Philips. The iU22 is primarily a general imaging system while the iE33 is a premium cardiac system. Both systems offer excellent image quality and ergonomics.

The iU22/iE33 service training course is designed for the ultrasound service professional. This course will focus on the system as it pertains to theory, architecture, block diagram and functional repair.

OUTLINE

- Basic theory
- System familiarization
- Manual overview
- System architecture and common failures
- Troubleshooting and replacement
- Host/SIP replacement
- PM procedure
- DICOM connectivity
- Service access

The course is completely hands-on with labs focusing on scanning techniques, common failures, board and module replacement.

*Course prerequisite is at least one year of ultrasound experience or completion of Ultrasound 101 course.



AVANTE CUSTOM COURSES

If you do not see a training course that suits your needs, please contact us. We can create custom courses based on the system mix of your facility. Custom courses can be performed at either your facility or Avante Health Solutions, and are tailored to suit the level of expertise your engineers need.

All courses are conducted by Avante Health Solution's experienced technical support engineers who provide not only the fundamental knowledge of ultrasound, but real-world application and troubleshooting.

Hands-on labs are critical to gaining a better understanding of the systems and sub-assembly replacement, and are a part of every course designed by Avante Health Solutions.



2022 TRAINING SCHEDULE

JANUARY

26-27.....Philips Epiq and Affiniti

FEBRUARY

16-17.....GE Vivid/Logiq E9

MARCH

23-24.....GE Logiq E10 and Vivid E95

APRIL

12-14.....Siemens S2000/SC2000

MAY

10-11.....Philips Epiq and Affiniti

JUNE

14-15.....GE Vivid/Logiq E9

JULY

12-14.....Philips iU22 and iE33

AUGUST

23-25.....GE Logiq E10 and Vivid E95

SEPTEMBER

13-14.....Philips Epiq and Affiniti

OCTOBER

11-13.....Siemens S2000/SC2000

NOVEMBER

8-10.....GE Vivid/Logiq E9

TRAINING COURSE ENROLLMENT FORM

Training Course Date: _____

Training Course Date: _____

Training Course Date: _____

Attendee 1: _____

Attendee 2: _____

Email 1: _____

Email 2: _____

Facility: _____

Street Address: _____

City: _____ State: _____ Zip: _____

Phone: _____ Fax: _____

Manager's Name: _____ Email : _____

Phone: _____

*Enrollment fees are non-refundable if cancellation is received three weeks (15 business days) or less before course date.

*All payments are due in full 30 days prior to course to guarantee availability.

*Please note: Travel arrangements and accommodations are not included in cost.

☐ Payment Option 1 (Credit Card)

☐ Visa ☐ Mastercard ☐ AMEX

Card No: _____

EXP Date: _____

Total Enrollment FEE: _____

Signature: _____

Billing Address (If different than above): _____

City: _____ State: _____ Zip: _____

☐ Payment Option 2 (Pay by Check)

☐ Contract/UMP = No Charge

PO#: _____

Remit Payment to: