

Avante | Ultrasound

formerly  **GMI**
Global Medical Imaging



2019 TRAINING MANUAL

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WELCOME

Thank you for choosing Avante Ultrasound as your training partner. Avante Ultrasound is committed to empowering the Biomed community with outstanding training programs. We believe that the more knowledge that we can pass on to the community, the better off patients will be served.

By providing cost effective, hands on and practical training, engineers are immediately able to impact the bottom line of the day to day operations.

Benefits of Avante Ultrasound Training:

- Small Classes to increase Instructor to Student ratio
- Comprehensive Hands-On course instruction
- 24/7 Technical Support
- Cost Effective
- Time saving course gets engineers back to work quickly
- Best Instructors in the industry
- Ultrasound 101 Self-Pace 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 the purchase order to:

Fax: (704) 940-7756
Email: training@gmi3.com

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

START AND FINISH TIMES

All classes begin promptly at 9:15 am and finish at 5:00 pm.

CLASS SUPPLIES

Each student needs to come prepared with a notebook and writing utensil; notebook PC is optional (All other study information will be provided by the ultrasound instructor). Complimentary wi-fi is available.

CANCELLATION

Cancellations MUST be given twenty one days in advance. Failure to cancel before the 21 day window will result in no refund.

LOCATION

All courses take place at our Charlotte, NC facility at 222 Rampart Street. The nearest airport is Charlotte Douglas International (CLT). CLT is a hub for American Airlines.

EXPENSES

Students are responsible for all travel related expenses, including airfare, transportation, meals, and lodging. Avante Ultrasound 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!!

Avante | Ultrasound

222 Rampart Street
Charlotte, NC 28203
1.800.958.9986
www.avantehs.com/ultrasound

HOTEL INFORMATION

RECOMMENDED HOTELS: (Close Proximity to Avante Ultrasound)

Fairfield Inn & Suites Charlotte Uptown _____ (704) 372-7550

Use Rate CODE: Global Medical Imaging

201 S. McDowell Street, Charlotte, NC 28202

<https://www.marriott.com/hotels/travel/citut-fairfield-inn-and-suites-charlotte-uptown/>

Hilton Garden Inn-Charlotte Uptown _____ (704) 347-5972

508 E. Martin Luther King Jr. Blvd, Charlotte, NC 28202

<http://www.hgicharlotteuptown.com/>

Hampton Inn – Charlotte Uptown _____ (704) 373-0917

530 Dr. Martin Luther King Jr. Blvd, Charlotte, NC 28202

<http://www.hamptoncharlotteuptown.com>

** Note that when locating the hotels on GPS, its' listed on 2nd Street, Charlotte, NC

ALTERNATIVE HOTELS:

The Westin Charlotte _____ (704) 375-2600

601 S College Street, Charlotte, NC 28202

Charlotte City Center Courtyard by Marriott _____ (704) 926-5800

237 S Tryon Street, Charlotte, NC 28202

Marriott Charlotte City Center _____ (704) 333-9000

100 W Trade Street, Charlotte, NC 28202

Holiday Inn Charlotte Center City _____ (704) 335-5400

230 North College Street, Charlotte, NC 28202

Hyatt Place Charlotte _____ (704) 227-0500

222 South Caldwell Street, Charlotte, NC 28202

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ULTRASOUND 101

This 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.

Class gives background and fundamentals for ultrasound theory, operation and transducer identification. This course is self paced.

OUTLINE

- Basic Theory
- Physics
- System Architecture
- Transducer Types and Applications

The course is available online.

*Course is prerequisite for platform specific, unless attendee has 1 year of ultrasound experience



SIEMENS S2000

The S2000 is the flagship ultrasound system manufactured by Siemens. It is their premier system and is commonly found in both the Radiology and Cardiology departments. The system is an outstanding imaging system.

The S2000 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-Common Failures
- Troubleshooting-Replacement
- PM Procedure
- DICOM Connectivity

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

*Course prerequisite is 1 year of ultrasound experience or Ultrasound 101 course



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GE Vivid/Logiq E9

The E9 series are both flagship 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-Common Failures
- Troubleshooting-Replacement
- PM Procedure
- DICOM Connectivity

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

*Course prerequisite is 1 year of ultrasound experience or Ultrasound 101 course



GE Voluson E8

The Voluson E8 is one of the newest in the Voluson family of OB/GYN & Women's Health ultrasound systems produced by GE. The system provides anatomical images never seen before, has improved ergonomics and improved automation.

The E8 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-Common Failures
- Troubleshooting-Replacement
- PM Procedure
- DICOM Connectivity

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

*Course prerequisite is 1 year of ultrasound experience or Ultrasound 101 course



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PHILIPS IU22/IE33

The iU22 and iE33 are the flagship ultrasound platforms manufactured by Philips. The iU22 is primarily a general imaging system while the iE33 is the premier 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-Common Failures
- Troubleshooting-Replacement
- Host/SIP Replacement
- PM Procedure
- DICOM Connectivity
- Service access

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

*Course prerequisite is 1 year of ultrasound experience or Ultrasound 101 course



PHILIPS EPIQ/Affiniti

The Epiq & Affiniti series are the newest offering for the ultrasound modality manufactured by Philips. The Epiq 5 & Affiniti 50 are primarily general imaging systems, while the Epiq 7 & 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 & iE33.

The Epiq & 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-Common Failures
- Troubleshooting-Replacement
- PM Procedure
- DICOM Connectivity

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

*Course prerequisite is 1 year of ultrasound experience or Ultrasound 101 course



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AVANTE CUSTOM COURSES

If you do not see what you need here, 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 Ultrasound and are tailored to suit the level of expertise your engineers need.

All courses are conducted by Avante Ultrasound’s experienced technical support engineers and provide not only the fundamental knowledge of ultrasound, but real world application and troubleshooting.

Hands on labs are critical and a part of every course designed by Avante Ultrasound to get a better understanding of the systems and subassembly replacement.



2019 TRAINING SCHEDULE

JANUARY

22-23.....Siemens S2000

FEBRUARY

12-13.....Philips iU22 & iE33

MARCH

21-20.....GE Vivid /Logiq E9

APRIL

24-25.....Philips Epiq & Affiniti

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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 3 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 accommodation are not provided 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#: (optional) _____

Remit Payment to:

Avante | Ultrasound

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