



# 2018 TRAINING ACADEMY COURSES & GENERAL INFORMATION



One Source  
for all your ultrasound needs



*will soon be* Avante | Ultrasound

[www.gmi3.com](http://www.gmi3.com)

# CONTENTS

## GENERAL INFORMATION:

Introduction .....	Page 3
2018 Training Calendar .....	Page 3
Valuable Information .....	Page 4
Training Course Enrollment Form.....	Page 5
Hotel Information .....	Page 6
Food and Beverage.....	Page 7
Directions to GMI .....	Page 8

## ULTRASOUND IMAGING SYSTEMS TRAINING ACADEMY COURSES:

Ultrasound 101 .....	Page 10
Siemens S2000 Service Training.....	Page 10
GE E9 Service Training .....	Page 11
GE E8 Service Training.....	Page 11
Philips IU22/IE33 .....	Page 12
Philips Epiq/Affiniti .....	Page 12
GMI Custom Courses .....	Page 13

# INTRODUCTION

**Thank you for choosing GMI as your training partner.** GMI 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 GMI 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

# 2018 TRAINING SCHEDULE

## JANUARY

23-24.....Siemens S2000

## FEBRUARY

13-14.....GE Voluson E8

15-16.....GE Vivid/Logiq E9

## APRIL

24-25.....Philips iU22 & iE33

26-27.....Philips Epiq & Affiniti

## AUGUST

14-15.....Philips iU22/iE33

## SEPTEMBER

11-12.....Philips Epiq/Affiniti

## OCTOBER

16-19.....GE Voluson E8

18-19.....GE Vivid /Logiq E9

## NOVEMBER

6-9.....Philips iU22 & iE33

8-9.....Philips Epiq & Affiniti

## ON THE ROAD TRAINING (WEST COAST)

### JULY

17-20.....GE E8 & GE E9 (OTR)

# VALUABLE INFORMATION

## ENROLLMENT:

---

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

Mailing Address:

**GMI**

**ATTN: Training Department**

**222 Rampart Street**

**Charlotte, NC 28203**

Fax: (704) 940-7756

Email: [training@gmi3.com](mailto: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. GMI 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!!

GMI welcomes your comments or questions to any aspect of our training program or courses.

# TRAINING COURSE ENROLLMENT FORM

TRAINING COURSE/ DATE: \_\_\_\_\_

TRAINING COURSE/ DATE: \_\_\_\_\_

TRAINING COURSE/ DATE: \_\_\_\_\_

ATTENDEE 1: \_\_\_\_\_

ATTENDEE 2: \_\_\_\_\_

EMAIL 1: \_\_\_\_\_

EMAIL 2: \_\_\_\_\_

FACILITY: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_

PHONE: \_\_\_\_\_ FAX: \_\_\_\_\_

MANAGER'S NAME: \_\_\_\_\_

PHONE: \_\_\_\_\_ E-MAIL: \_\_\_\_\_

**PAYMENT OPTION 1 (Credit Card)**

**Complimentary (Should an engineer cancel within 21 days of a scheduled class, a penalty of 50% of list price will apply)**

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)**

PO#: (optional) \_\_\_\_\_

Remit Payment To: **Global Medical Imaging, LLC**  
222 Rampart Street  
Charlotte, NC 28203

\*Enrollment fees are non-refundable if cancellation is received 3 weeks (15 business days) or less before course date.

\*All payment are due in full 30 days prior to course to guarantee availability

\*Please Note: Travel arrangements and accommodations are not provided in cost.



will soon be **Avante | Ultrasound**

www.gmi3.com

# HOTEL INFORMATION

## RECOMMENDED HOTELS: (Close Proximity to GMI)

.....  
**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

# FOOD AND BEVERAGE

## AREA RESTAURANTS & BARS:

NAME	TYPE	STREET ADDRESS/ WEB ADDRESS	RESERVATIONS	MILES FROM GMI	AVG. RATE
<b>Sullivan's</b>	Steakhouse	Tremont Street <a href="http://sullivansteakhouse.com/">http://sullivansteakhouse.com/</a>	(704) 335-8228	0.5	\$\$\$
<b>Tyber Creek</b>	Pub Bar	1820 South Blvd <a href="http://www.tybercreek.com/">http://www.tybercreek.com/</a>	(704) 343-2727	0.5	\$\$
<b>Hot Taco</b>	Mexican	200 East Bland Street <a href="http://www.hottaco.com/">http://www.hottaco.com/</a>	(704) 333-8226	1.1	\$\$
<b>300 East</b>	American	300 East Blvd <a href="http://www.300east.net/">http://www.300east.net/</a>	(704) 332-6507	1.0	\$\$\$
<b>Bad Daddy's Burger Bar</b>	American	1626 East Blvd <a href="http://www.bigdaddysburgerbar.com">www.bigdaddysburgerbar.com</a>	(704) 714-4888	1.9	\$\$
<b>All-American Pub</b>	American	200 East Bland Street <a href="http://www.allamericanpubclt.com/">http://www.allamericanpubclt.com/</a>	(704) 370-2000	1.1	\$\$
<b>Fuel Pizza</b>	Pizza/Salad	1801 South Blvd <a href="http://www.fuelpizza.com">www.fuelpizza.com</a>	(704) 335-7375	0.4	\$
<b>Mac's Speed Shop</b>	BBQ	2511 South Blvd <a href="http://www.macspeedshop.com">www.macspeedshop.com</a>	(704) 522-6227	0.7	\$
<b>BlackFinn</b>	Bar & Lounge	210 E Trade Suite B 120 <a href="http://blackfinncharlotte.com/">http://blackfinncharlotte.com/</a>	(704) 971-4440	2.1	\$\$
<b>Chipotle Mexican Grill</b>	Mexican	2109 South Blvd <a href="http://www.chipotle.com">www.chipotle.com</a>	704.332.2311	0.5	\$
<b>McCormick &amp; Schmick's</b>	Seafood	200 S Tryon St <a href="http://www.mccormickandschmicks.com">www.mccormickandschmicks.com</a>	(704) 377-0201	1.9	\$\$\$

# DIRECTIONS TO GMI

## I-77 NORTHBOUND (FROM SC):

.....

- 1) Take the REMOUNT RD. exit- exit 8.
- 2) Turn RIGHT onto REMOUNT RD.
- 3) Turn LEFT onto S TRYON ST (first light)
- 4) Turn RIGHT onto RAMPART STREET
- 5) GMI will be on your LEFT

## I-77 SOUTHBOUND:

.....

- 1) Take the WEST BLVD exit- exit 9A.
- 2) Turn LEFT onto West Blvd.
- 3) Turn RIGHT onto SOUTH TRYON STREET
- 4) Turn LEFT onto RAMPART STREET
- 5) GMI will be on your LEFT

## FROM HILTON GARDEN INN/ HAMPTON INN CHARLOTTE UPTOWN:

**(Shuttle Service to GMI available)**

.....

- 1) E. MLK Jr toward S. Caldwell
- 2) LEFT on Caldwell St
- 3) Caldwell St turns into South Blvd
- 4) RIGHT onto E. Tremont Ave
- 5) LEFT onto Hawkins
- 6) RIGHT onto Rampart  
(GMI will be on your right)

## FROM CHARLOTTE DOUGLAS AIRPORT:

.....

- 1) Wilkinston Blvd/US 29, N/US74E
- 2) RIGHT onto Remount Rd
- 3) LEFT onto S. Tryon
- 4) RIGHT onto Rampart ST  
(GMI will be on your left)



# ULTRASOUND 101

## COURSE DESCRIPTION:

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

## COURSE DESCRIPTION:

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

# GE Vivid/Logiq E9

## COURSE DESCRIPTION:

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

## COURSE DESCRIPTION:

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



# PHILIPS IU22/IE33

## COURSE DESCRIPTION:

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. This platform is built on similar architecture of its predecessor the HDI 5000.

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

## COURSE DESCRIPTION:

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



# GMI CUSTOM COURSES

## COURSE DESCRIPTION:

---

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 GMI and are tailored to suit the level of expertise your engineers need.

All courses are conducted by GMI'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 GMI to get a better understanding of the systems and subassembly replacement.

