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**Network Infrastructure and Protocols Training**

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technical service training
tailored to fit your needs!

about technical education from GE Healthcare
GE Healthcare Education Services delivers technical education for Diagnostic Imaging, Computed Tomography, Magnetic Resonance, Mammography, Nuclear Medicine/PET, Ultrasound, Monitoring, Diagnostic Cardiology, Infant Care and Anesthesia Delivery Systems and Respiratory products. We also offer a curriculum of Network Infrastructure and Protocols Training classes focused specifically on the needs of today’s biomedical and technical professionals.

our goal
To be recognized as the global leader in healthcare education solutions.
• Building customer knowledge and competencies through a diverse educational portfolio in an increasingly complex healthcare environment.
• Striving to exceed customer expectations by delivering exceptional quality education that is clinically relevant and has a measurable impact on practice.
• Be a provider of choice for Network Infrastructure and Protocols Training education regardless of medical equipment choices, previous learning or experience.

registration instructions
Registration is online.
Go to www.gehealthcare.com/training and choose the appropriate category for course schedules and registration link. Select your course and complete all information. Print a copy for your files before submitting. When done, click on Save and Submit to send registration form to a Training Coordinator.

for product technical – ultrasound courses:
Please print the Technical – Devices Agreement & Employment Verification Form.

for product technical – diagnostic imaging courses:
Computed Tomography; Invasive Cardiology; Magnetic Resonance; Molecular Imaging - Nuclear Medicine; Molecular Imaging – PET; Molecular Imaging – Radiopharmaceutical; X-ray. Please print the Technical – Application for Advanced Service Training.

confirmation of enrollment is sent automatically via email.

customer requirements:
All Diagnostic Imaging and Ultrasound Classes Require Laptops
If you are attending a diagnostic imaging or ultrasound course, please bring a laptop with you to access any materials that the instructor may provide during your training class.

Please remember to bring a laptop loaded with Microsoft® Applications / CD ROM Reader. Depending on the class you are enrolled in, you may have to load service software onto your laptop; therefore you would need administrative rights. If you do not have Microsoft Applications (Word, Powerpoint®, Excel®) loaded on your laptop, you can download and install Microsoft Viewers for Word, Powerpoint, Excel at the below link:


Laptop requirements: PC based (Non Mac) Windows XP Pro or Windows 7; Local Administrator access; Wireless network card (Optional for Internet Access); Wired Network card; DB 9 Serial port; CD ROM drive; Ability to disable any and all spy ware and virus scan programs; HyperTerminal or other terminal emulation software; USB Port; AC Power Cord; Internet Explorer 8 or greater; Adobe Reader 6.0 or greater; Latest Flash Plug in; Windows Media Player 10 or greater**

Please Note: DVD Reader required only if enrolled for Innova® Systems or MR course.
policies and terms

attendance

- Students are required to arrive on time for class.
- Class start and end times vary. Please refer to your e-mail enrollment notification.
- For no-shows (i.e., registered students who do not attend the class but do not cancel in advance of the class start date), there is a no-show fee of full course tuition.
- Students must pass an assessment to receive certificate of successful completion.

low enrollment

GE Healthcare reserves the right to cancel classes due to low enrollment. Classes with low enrollment 15 business days prior to the scheduled date will be cancelled. Please consider this when booking your travel.

When GE Healthcare cancels a class, tuition will be refunded in full. Alternatively, tuition may be applied to the cost of another class scheduled to take place within 12 months of the original class.

GE Healthcare will not be held responsible for any travel costs incurred due to circumstances beyond our control, such as, but not limited to, hurricanes, tornados, or labor strikes.

cancellations

- Cancellations can be made by email or phone: edservices@ge.com or by contacting 888-799-9921.
- For cancellations made more than 3 weeks prior to the class start date, there is no cancellation fee.
- For cancellations made 7-15 business days prior to the class start date, there is a cancellation fee of 25% of course tuition. For cancellations made 1-6 business days prior to the class start date, there is a cancellation fee of 50% of course tuition.
- For no-shows (i.e., registered students who do not attend the class but do not cancel in advance of the class start date), there is a no-show fee of full course tuition.
- GE reserves the right to cancel or reschedule any class for any reason and at any time. GE will not be held responsible for any travel costs incurred due to causes beyond our control, such as, but not limited to, hurricanes, tornados, or strikes.

order expiration

Diagnostic Imaging Courses -
Training expires 24 months after order date.

Devices, Healthcare IT, and Ultrasound Courses -
Training expires 18 months after order date.

use of media & recording devices

The Healthcare Institute’s (HCI) policies prohibit the use of any unauthorized personal removable media and recording devices in any courses, classrooms, and labs without the express consent of GE Healthcare. This includes, but is not limited to the following:

- Cell phones
- Still Cameras
- Video or audio recording devices
- Any external hard drives (Network or other)
- Any form of memory cards including, but not limited to, CompactFlash card, Secure Digital card (SD card), or Memory Stick
- Any other flash read/write media
- Any other USB read/write media

GE health and safety policy

GE Healthcare requires students to wear closed-toe and closed-heel shoes while attending training. Safety toe-shoes are required, but steel-toe shoe covers are available in the classroom. MR courses require composite toe safety shoes. Open-toe, high-heel shoes or sandals are not permitted.

education centers

waukesha, wi

The Healthcare Institute has expanded to include classrooms to support anesthesia classes and our new Network Infrastructure and Protocols Training curriculum.

jupiter, fl

Our center of excellence for patient monitoring product support now includes new classrooms featuring our new Network Infrastructure and Protocols Training curriculum and many GE product training classes.

remote locations

Periodically, we take classes to strategic locations for added customer convenience. Check our website for the most current list of classes www.gehealthcare.com/training.

hosting a class

If you have a group to train, consider hosting a class at your facility. Our instructors can bring a number of our courses to you for maximum flexibility and convenience. You eliminate travel expense and have the advantage of training multiple staff at the same time, which can reinforce learning.

about our training

blended curriculum

Our technical service training offers a blended curriculum with web-based and in-resident courses. Our integrated training platform minimizes the time you spend away from home.

Web-based Courses

Introductory, pre-requisite, and some differences courses are available for independent study.

In-Resident Courses (Classroom/Lab)

Advanced courses held at the GE Healthcare Institute provide invaluable and practical hands-on training taught by industry-leading instructors.

Differences Courses

Tailored specifically for those who have previous training on GE Diagnostic Imaging Equipment and designed to bring you up to speed on the latest technology and equipment.

In-Resident Training at the GE Healthcare Institute

For your convenience during your in-resident training, there are onsite meal services and condominium accommodations conveniently located across the street from the Healthcare Institute.

For your convenience, we now have one number to call for information on any course.

1-888-799-9921
Brivo* MR355 and Optima* MR360 Differences (Web)

The Brivo MR355 and Optima MR360 Differences training consists of a computer based (CBT) self-paced course and exam. The course focuses on differences between Brivo MR355/Optima MR360 and current HDe*/DV platforms. Key product differences involve the table, magnet enclosure, console, and software interface.

**Note**: To service Brivo MR355 and Optima MR360 systems, students must have credit for HDe, DV full service [Discovery*750/Optima450/Optima450w] training and this course, or have completed MR5047 SV Full Service training.

course competencies:
upon successful completion of this course, the student should be able to:

- Identify safety precautions for the system
- Identify software, hardware, and target market differences between MR360/355 and HDe platforms
- Distinguish between basic subsystems, components and functions of the 355/360 system and HDe/MR Discovery750/Optima450/Optima450w systems
- Identify key SV subsystems, components and their functions

---

**Tuition:**
- R0087MR $3,300

**Delivery method:**
- Web

**Length of course:**
- 4 hours

**Pre-requisite required**
- Discovery MR 750/450 and Optima 450W
  - R0081MR $19,465

**Program information**
Please visit www.gehealthcare.com/training for the most current information on dates and locations.
Discovery* MR750/450 and Optima* 450W

This 8-day training program will be available to all MR Service Engineers with sites upgrading to Discovery MR750; Discovery MR450 and Optima 450W as well as those receiving Discovery MR750; Discovery MR450 and Optima 450W as part of forward production.

The Discovery MR750/ Discovery MR450 & Optima 450W System class/lab provides the instructional and hands-on opportunities for the student to acquire the fundamental competencies to effectively and safely service the Discovery MR750, Discovery MR450 and Optima 450W Systems.

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<thead>
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<th>product number</th>
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<tr>
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<tr>
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<tr>
<th>pre-requisites required</th>
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<tbody>
<tr>
<td>- MR Basic Service R0083MR $7,490</td>
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<td>- MR Full Service R0080MR $28,265</td>
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<tr>
<td>Please visit <a href="http://www.gehealthcare.com/training">www.gehealthcare.com/training</a> for the most current information on dates and locations.</td>
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</table>
Discovery* PET/CT & MR Transfer Board System Full Service Training

The Discovery PET/CT + MR transfer board system provides a patient transfer solution between compatible PET/CT systems and the MR 450w GEM or MR 750w GEM flat table systems. The components reside in the PET/CT room and are used with the MR system in the tri-modality workflow.

The transfer board uses an air hover technique to transfer a patient in a lateral direction between the PET/CT scan table and the MR GEM flat scan table. The design of the transfer board and fixtures include features to help ensure safe operation and transfer, and indexing features to help ensure repeatable patient positioning for accurate image registration.

**product number**
Tuition: R0910CM
$1,625

**delivery method**
web

**length of course**
2 hours

**program information**
Please visit www.gehealthcare.com/training for the most current information on dates and locations.
MR Basic Service

The MR Basic Service Readiness in-resident course will equip the Engineer with the theory and physics of MR and the ability to identify, operate and PM systems at a basic service level. This one-week in-residence course will provide classroom instruction as well as practical application of Basic Service skills on a variety of GE MR systems including Excite*, Excite HDx, Ovation, OpenSpeed and Signa* MR/i.

Lab activities will utilize 0.35T, 0.7T, 1.0T, 1.5T and 3.0T systems and will include:

- Operation
- Power Up/Down
- Image Acquisition
- Image Archive (where applicable)
- Simple non-invasive repairs
- Simple PMs
- MR Physics and work site safety

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<tr>
<th>product number</th>
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MR Erbtec RF Amplifier

This is a stand-alone course that covers the essential changes and upgrades to the use, maintenance and repair of Erbtec RF Amplifier subsystems currently in the installed base of mid and high-field MR imaging systems.

course competencies:
upon successful completion of this course, the student should be able to:

• Identify the characteristics of the Erbtec RF Amplifier and differentiate the Erbtec RF Amplifier from other RF Amplifiers
• Configure the Erbtec Amplifier
• Work safely in the Erbtec environment
• Describe the functionality of the Erbtec Amplifier
• Troubleshoot the most common Erbtec Amplifier problem

product number
Tuition:  
R0078MR  $1,625

delivery method  
web

length of course  
3.5 hours

pre-requisites required
- MR Basic Service  
R0083MR  $7,490
- MR Full Service  
R0080MR  $28,265

program information
Please visit www.gehealthcare.com/training for the most current information on dates and locations.
**MR Excite* 2A (10.X/11.X)**

The MR Signa* Excite 2A course will provide you with the core information needed to use system documentation to install, configure, diagnose and troubleshoot the Signa Infinity with Excite Technology* system. This course will cover the new Signa Excite (11.X) hardware along with procedures for installation, configuration, diagnostics and troubleshooting tools.

**course competencies:**
upon successful completion of this course, the student should be able to:

- Install and configure the new Signa 11.X hardware (through Excite-2A)
- Locate and define the Signa 11.X system hardware (through Excite-2A)
- Diagnose, troubleshoot and replace the Signa 11.X system hardware (through Excite-2A)

**product number**
Tuition:  
R0067MR $4,990

**delivery method**
web

**length of course**
9 hours

**pre-requisites required**
- MR Basic Service  
  R0083MR  
  $7,490  
- MR Full Service  
  R0080MR  
  $28,265

**program information**
Please visit www.gehealthcare.com/training for the most current information on dates and locations.
**MR Excite* 3HD**

The MR Service Training Curriculum is designed to train Service Engineers to:

- Identify the differences between the previous Excite versions and the Excite HD
- Recognize the different hardware configurations for Excite HD
- Recognize the different software changes for Excite HD

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**delivery method**
- web

**length of course**
- 3 hours

**pre-requisites required**
- MR Basic Service
  - R0083MR
  - $7,490
- MR Full Service
  - R0080MR
  - $28,265

**program information**
Please visit [www.gehealthcare.com/training](http://www.gehealthcare.com/training) for the most current information on dates and locations.
MR Excite* HDx Service Training

The HDx program brings design, hardware, and performance enhancements to the current forward production HDMR product. It includes both 1.5T and 3.0T field strengths. Currently, there is training for Excite 2/2A and Excite3 HD.

course competencies:
upon successful completion of this course, the student should be able to:

• Recognize and utilize all safety precautions
• Recognize and understand the HDx hardware configurations, both upgrade and forward production
• Understand what is involved in an HDx software load, as well as the new Installation Calibration Wizard for all HDx calibrations
• Understand what new calibration, diagnostic and troubleshooting tools are being introduced with HDx, and when to use them
• Identify and locate troubleshooting procedures for problems that may occur
• Utilize the HDx service methods DVD loaded on the systems and the local laptops

product number
Tuition:
R0072MR $5,990

delivery method
web

length of course
4 hours

pre-requisites required
- MR Basic Service
  R0083MR $7,490
- MR Full Service
  R0080MR $28,265

program information
Please visit www.gehealthcare.com/training for the most current information on dates and locations.
MR Full Service

The MR Full Service will equip the Service Engineer with system and subsystem theory and hands-on lab activities to address technical service issues for the Signa* LX and Excite* product families.

Lab activities include:
- Calibrations
- Characterizations
- Software load and configuration
- Subsystem diagnostics
- Subsystem and system troubleshooting

Course competencies:
Upon successful completion of this course, the student should be able to:
- Identify required tools and documentation for system service
- Work safely in the magnetic field environment
- Identify FRU part numbers, and replace common FRUs
- Identify the installation steps and resources required for system installation
- Perform system quality assurance checks and performance verification
- Troubleshoot image quality issues
- Perform alignments, calibrations, and image quality checks
- Isolate system faults to the FRU level using system diagnostics
- Perform planned maintenance procedures
- Load software (LFC) during install or troubleshooting

Product number
Tuition:
R0080MR  $28,265

Delivery method
class/lab

Length of course
14 days

Pre-requisite required
- MR Full Service
R0080MR  $28,265

Program information
Please visit www.gehealthcare.com/training for the most current information on dates and locations.
MR HDe* Service

The MR Signa* Excite* HDe Full Service class will equip the Service Engineer with system and subsystem theory and hands-on lab activities to address technical service issues for the Signa HDe product family. This course is designed as a differences course focusing on the differences between HDe and forward production HD/HDx systems.

Lab activities include:
- Calibrations
- Coil replacement
- Subsystem diagnostics
- Passive Shimming
- Subsystem and system troubleshooting

Course competencies:
Upon successful completion of this course, the student should be able to:
- Identify required tools and documentation for system service
- Work safely in the magnetic field environment
- Identify FRU part numbers, and replace common FRUs
- Identify the installation steps and resources required for system installation
- Perform system quality assurance checks and performance verification
- Demonstrate understanding of product configuration differences
- Perform alignments, calibrations, and image quality checks
- Isolate system faults to the FRU level using system diagnostics
- Perform planned maintenance procedures
- Identify software/configuration differences between HDx and HDe products

Tuition: $13,285

Delivery method: class/lab

Length of course: 4 days

Pre-requisites required:
- MR Excite 2A (10.X/11.X) R0067MR $4,990
- MR Excite 3HD R0074MR $5,990

Program information:
Please visit www.gehealthcare.com/training for the most current information on dates and locations.
MR Master Series Advanced

The MR Master Series Advanced Service Customer Training course provides a ‘Senior’ Service Engineer previously trained on GE MR products with the analytic skills to effectively troubleshoot and adjust the image quality issues on the current systems in the field. This is not a product specific course but uses all available systems with emphasis on productivity improvements through the use and interpretation of systems tests.

This course provides particular emphasis on the ability to evaluate how different user applications affect system operation. This is an interactive course that utilizes the shared experiences of the Service Engineers, as well as the most current issues and solutions in the MR problem databases. It also addresses customer satisfaction skills, and updates on the latest equipment. The Service Engineer who successfully completes this course will be able to provide support to their peers on-site or remotely.

course competencies:
upon successful completion of this course, the student should be able to:

- Demonstrate safe practices relating to the hazards and dangers applicable to the MR environment.
- Interpret the results of application issues for MR Imaging Systems software.
- Analyze a variety of Pulse Sequence Database (PSD) issues related to applications problems to resolve system problems.
- Troubleshoot using software tools and diagnostics to minimize customer down time.
- Troubleshoot and adjust image quality issues, including white pixels.
- Recognize, diagnose, and resolve application related problems.

product number
Tuition:
R0077MR $11,325

delivery method
class/lab

length of course
8 days

pre-requisites required
- MR Basic Service R0083MR $7,490
- MR Full Service R0080MR $28,265

program information
Please visit www.gehealthcare.com/training for the most current information on dates and locations.
MR Optima* 430s (ONI) Service Training

The MR Optima 430s (ONI) Full Service class consists of 7.5 days of in-resident classes and labs. This course will focus on servicing the 1.0T and 1.5T ONI extremity imaging systems, including magnet. The intense schedule of this class will require full attendance through 12 Noon (CST) on the last scheduled day. Travel arrangements should be made accordingly.

course competencies:

upon successful completion of this course, the student should be able to:

• Identify required tools and documentation for system service
• Identify the subsystems of ONI extremity MR imagers
• Locate service procedures and parts diagrams listed in the ONI service documentation
• Operate the system at applications level to verify proper system operation
• Operate the system in service mode to access service tools
• Demonstrate safe work practices
• Perform planned maintenance to keep the system performing within specified limits
• Perform system measurements and calibrations
• Remove and replace selected parts to repair systems at the FRU level using functional checks and performance tests to ensure proper operation
• Define steps of mechanical installation
• Identify steps to isolate and rectify system malfunctions or image artifacts
• Perform vacuum pump down
• Perform Liquid Nitrogen pre-cool
• Perform Liquid Nitrogen Purge
• Perform Liquid Helium Fill
• Ramp the magnet to specification
• Perform a cold-head replacement

product number
Tuition:
R0084MR \$15,345

delivery method
class/lab

length of course
7.5 days

pre-requisite required
- MR Basic Service
R0083MR \$7,490

program information
Please visit www.gehealthcare.com/training for the most current information on dates and locations.
MR Ovation/Profile Full Service

The MR Signa* Ovation/Profile Full Service class will equip the Service Engineer with system and subsystem theory and hands-on lab activities to address technical service issues for the Signa Ovation and Signa Profile product families. Due to the similarities of construction and process, both products will be taught on the Ovation system. Both Excite* and TPS versions will be discussed through Ovation 5 and Profile HD configurations.

Lab activities include:

- Calibrations
- Coil replacement
- Subsystem diagnostics
- Passive Shimming
- Subsystem and system troubleshooting

**course competencies:**

Upon successful completion of this course, the student should be able to:

- Identify required tools and documentation for system service
- Work safely in a permanent magnet environment
- Identify FRU part numbers, and replace common FRUs
- Identify the installation steps and resources required for system installation
- Perform system quality assurance checks and performance verification
- Demonstrate understanding of product configuration differences
- Perform alignments, calibrations, and image quality checks
- Isolate system faults to the FRU level using system diagnostics
- Perform planned maintenance procedures

**Product number**

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<tr>
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<tr>
<td>R0073MR</td>
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</table>

**Delivery method**

- class/lab

**Length of course**

- 8 days

**Pre-requisites required**

- MR Basic Service R0083MR $7,490
- MR Full Service R0080MR  $28,265

**Program information**

Please visit www.gehealthcare.com/training for the most current information on dates and locations.
MR Signa* 3.0T Excite* Certificate

The MR 3.0T Excite Certificate course is a full service course designed to address the differences in service techniques and calibrations between the 1.5T family of products and the 3.0T. Emphasis is placed on safely working in the 3.0T environment, utilizing the unique service tools required for installation and service and calibration/fault analysis of 3.0T specific subsystems. Ramping and shimming of the LCC300 magnet are discussed/demonstrated to prepare the service engineer to support their MAC Team representative during installation.

course competencies:
Upon successful completion of this course, the student should be able to:

- Identify required tools and documentation for system service
- Work safely in the 3.0T magnetic field environment
- Identify FRU part numbers, and replace common FRUs
- Perform system quality assurance checks and performance verification
- Troubleshoot image quality issues
- Perform alignments, calibrations, and image quality checks
- Isolate system faults to the FRU level using system diagnostics
- Perform planned maintenance procedures
- Ramp & Park the LCC300 magnet within specifications
- Perform Passive and Supercon shimming to the required specification
- Demonstrate the assembly and safe use of all specialized 3.0T service tools

product number
Tuition: R0070MR $13,285

delivery method
class/lab

length of course
5 days

pre-requisites required
- MR Basic Service R0083MR $7,490
- MR Full Service R0080MR $28,265

program information
Please visit www.gehealthcare.com/training for the most current information on dates and locations.
MR Signa* Select & ACGD (Web)

The purpose of this online course is to introduce the new Gradient Driver (ACGD) hardware and the software advancements of the Signa Select Software.

course competencies:
upon successful completion of this course, the student should be able to:

• EPI Theory: Relate Echo Planar Imaging (EPI) theory to the physics of MR imaging
• DWI Scan: Perform a DWI scan using the Signa Select software
• ACGD Installation: Properly install and calibrate the ACGD Gradient Cabinet
• Troubleshooting: Perform diagnostics and troubleshoot using diagnostic tools and troubleshooting tips
• DWEPIQ Tool: Perform diagnostics, identify artifacts and interpret results using the DWEPIQ tool
• ASP2 Features: Gain credibility by demonstrating a basic knowledge of the Signa Select Software (ASP2) customer features

product number
Tuition:
R0060MR $4,590

delivery method
web

length of course
14 hours

pre-requisites required
- MR Basic Service R0083MR $7,490
- MR Full Service R0080MR $28,265

program information
Please visit www.gehealthcare.com/training for the most current information on dates and locations.
MR Signa* Twinspeed*

MR TwinSpeed is hardware and software modifications to the Signa MR/I (LX) installed base and will constitute the bulk of forward production systems. Changes include a new body coil system (RF and gradient) designed to provide faster, quieter scanning and broaden the range of system applications due to the coil’s duality. Coil use and new PSD’s will enable the TwinSpeed to make maximum use of the ACGD gradient system’s capabilities. This course contains proprietary materials and requires special licensing.

course competencies:
upon successful completion of this course, the student should be able to:

- Define need for the unique changes to the Signa MR system
- Describe contributing factors of the change
- Describe primary customer requirements
- Describe design changes to the gradient coil and magnet enclosure
- Describe components of the Twin Accessory Cabinet and what function they provide in the system
- Describe various combinations of the Twin System Cooling Cabinets and Twin Gradient Cooling Cabinet
- Describe unique installation considerations of Software compatibility, TRM installation and RF Coil
- Describe service considerations of the vacuum pump and the patient blower box filter
- Describe changes to Magnet Monitoring
- Describe an overview of the RF Coil alignment procedure
- Define which Service Software Tools have changed
- Describe changes to the Tool File Structure
- Describe new application features and changes

product number
Tuition:
R0062MR $3,300

delivery method
web

length of course
5 hours

pre-requisites required
- MR Basic Service
  R0083MR $7,490
- MR Full Service
  R0080MR $28,265

program information
Please visit www.gehealthcare.com/training for the most current information on dates and locations.
MR Spectroscopy, MNS, and MRS

This course covers the theory of the MR Spectroscopy option, the unique hardware characteristics and the differences between Multi-Nuclear Spectroscopy (MNS) and Magnetic Resonance Spectroscopy (MRS).

course competencies:
upon successful completion of this course, the student should be able to:

- Identify the primary characteristics of Spectroscopy theory
- Identify the primary characteristics of MNS theory
- Distinguish between Spectroscopy hardware on a Signa* Horizon (SX), Signa LX and Excite* HD MR system

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<th>Tuition:</th>
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<tr>
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<td>Please visit <a href="http://www.gehealthcare.com/training">www.gehealthcare.com/training</a> for the most current information on dates and locations.</td>
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</table>
Signa* HDxt HD23 Upgrade Training (Web)

This course is to familiarize the Service Engineer with the HD23 upgrade to GE LX and Excite* platforms from 9.X through HDxt (16.X) and builds on prior knowledge of products through HDxt. Course participants should be product full service qualified through HDxt.

course competencies:
upon successful completion of this course, the student should be able to:

- Recognize the hardware and functions required to upgrade LX(9x), Excite (11x), HD (12x), and HDxt 15x and 16x to HD 23
- Recognize the new products that will work with HD23
- Use the new HD 23 interface for scans and other workflow
- Recognize new coils added with the upgrade
- Use the new Coil Database
- Explain the new service features and service tools introduced with the upgrade
- Recognize differences between HDx and HD23 diagnostics
- Troubleshoot iLinq issues
- List the service tools that are no longer supported with the upgrade, i.e. TRMap, DWEPIQ and Auto Coil Installation
- Identify new applications introduced with HD23 and their IQ issues

product number
Tuition:
R0086MR $3,300

delivery method
web

length of course
2 hours

pre-requisites required
- HDxt product certification and experience

program information
Please visit www.gehealthcare.com/training for the most current information on dates and locations.
Essentials of Healthcare IT +

This instructor-led class is specifically designed for technical professionals responsible for the installation and support of medical devices and the networks interconnecting them. The class is taught by highly qualified technical trainers and will focus on developing the practical skills needed by a biomedical engineer to interface with networked devices in healthcare today. Extensive labs with plenty of hands-on time allows the student with no previous IT training to gain confidence in this new and exciting arena. The class will build and troubleshoot flat, switched, routed, and wireless networks. Basic computer skills are required.

intended audience:
- Biomedical equipment technicians
- Biomedical and clinical engineers
- Biomedical and clinical engineering managers
- Medical technology managers
- Hospital IT staff
- Any professional who supports the field of medical technology

Bring this class to your location.
Call for pricing and details: 888-799-9921

product number
Tuition:  
2030677-001 $4,250
Tuition & lodging:  
2030677-002 $5,175
Tuition, lodging & air:  
2030677-003 $6,070*
*US only

delivery method
class

length of course
4 days

program information
Please visit www.gehealthcare.com/training for the most current information on dates and locations.
Securing the Healthcare IT Environment

This instructor-led class is specifically designed for technical professionals responsible for the secure transport of electronic protected health information across healthcare IT infrastructures. This class is taught by experts in the healthcare IT field and topics include: a global security overview, relevant HIPAA Title II Privacy and Security Rule information, the top 10 HCIT network attacks and ways to prevent them, strategies to mitigate risk, and securing a home network. Hands-on labs include password cracking, configuring biometric identifiers, encryption, port scanning, using network analyzers, software firewall configuration, performing an MD5 Hash, and home router configuration. Students will perform a risk analysis of medical devices using MDS2 documentation and ACCE/ECRI tools. Basic computer skills and TCP/IP network troubleshooting techniques are required.

intended audience:

• Biomedical equipment technicians
• Biomedical and clinical engineers
• Biomedical and clinical engineering managers
• Medical technology managers
• Hospital IT staff
• Any professional who supports the field of medical technology

product number
Tuition: 2020786-053 $5,000
Tuition & lodging: 2020786-054 $5,925
Tuition, lodging & air: 2020786-055 $6,820*
*US only

delivery method
class

length of course
5 days

IT skills required
GE Essentials of Healthcare IT or equivalent

program information
Please visit www.gehealthcare.com/training for the most current information on dates and locations.
Wireless in the Healthcare IT Environment

This vendor-neutral class focuses on the installation, management, and troubleshooting of RF technologies in healthcare today; including WMTS, 802.11, RFID, and cellular communications. Topics include RF and antenna basics, common interference sources in healthcare, remote patient viewing using the Wireless Medical Telemetry Service (WMTS), 802.11 and access point configuration including wireless VLANs, RFID basics, cellular communications, and security requirements for wireless systems. Students receive hands-on training with network analyzers and spectrum analyzers, perform site surveys for WMTS and 802.11, and troubleshoot WMTS antenna systems.

intended audience:
- Biomedical equipment technicians
- Biomedical and clinical engineers
- Biomedical and clinical engineering managers
- Medical technology managers
- Hospital IT staff
- Any professional who supports the field of medical technology

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<td>Tuition, lodging &amp; air:</td>
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*US only

delivery method
class

length of course
5 days

IT skills required
GE Essentials of Healthcare IT or equivalent

program information
Please visit www.gehealthcare.com/training for the most current information on dates and locations.
Essentials of HL7*

This vendor-neutral class prepares the student to configure and troubleshoot HL7. Focusing on V2.x, students will learn to use the HL7 standard as a reference source as well as vendor conformance documents to aid in interface design. Topics include the structure and encoding of common patient administration, order, results, and billing messages, as well as interface design, data mapping, and vocabulary. Common troubleshooting techniques will be discussed and class concepts will be reinforced through use of the HL7 Messaging Workbench software. This instructor-led course is open to anyone wanting a more in-depth insight into HL7, regardless of equipment choice in the healthcare environment.

intended audience:

• Biomedical equipment technicians
• Biomedical and clinical engineers
• Biomedical and clinical engineering managers
• Medical technology managers
• Hospital IT staff
• Any professional who supports the field of medical technology

product number
Tuition: 2020786-167 $2,350
Tuition & lodging: 2020786-168 $2,905
Tuition, lodging & air: 2020786-169 $3,800*

*US only

delivery method
class

length of course
3 days

program information
Please visit www.gehealthcare.com/training for the most current information on dates and locations.
Essentials of DICOM*

This instructor-led course prepares the participant to become proficient in the installation, maintenance and troubleshooting of DICOM on digital imaging networks. Participants will learn to use the DICOM standard as a reference source, analyze conformance statements for predicting connectivity, configure and use DICOM simulators, and capture and analyze DICOM traffic using freeware tools like the DICOM Validation Toolkit.

intended audience:

• Biomedical equipment technicians
• Biomedical and clinical engineers
• Biomedical and clinical engineering managers
• Medical technology managers
• Hospital IT staff
• Radiologists
• Any professional who supports the field of medical technology

product number

Tuition: 2020786-126 $3,500
Tuition & lodging: 2020786-127 $4,055
Tuition, lodging & air: 2020786-128 $4,950*

*US only

delivery method
class

length of course
3 days

IT skills required
GE Essentials of Healthcare IT or equivalent

program information
Please visit www.gehealthcare.com/training for the most current information on dates and locations.