Education Services

X-ray
Technical Education
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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.
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
Discovery™ IGS 730 Service Training

The Discovery IGS 730 is a single plane X-ray system with a mobile C-Arm designed for an OR and Hybrid environment. This course covers tasks from installation and configuration to service and troubleshooting. Learning is accomplished through lecture and lab.

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

- System Overview - Identify the new features/functions of the Discovery IGS 730
- Install the new components on the Discovery IGS 730
- Configure and calibrate the new components on the Discovery 730
- Install new software on the Discovery IGS 730 System
- Operate the Discovery IGS 730
- Perform new PMs on the Discovery IGS 730
- Troubleshoot and repair the new subsystems of the Discovery IGS 730
- Demonstrate safe work practices when operating/servicing a Discovery IGS 730

product number
Tuition:  
R0201RY  $13,285

delivery method
class/lab

length of course
5 days

pre-requisites required
- X-ray Basic Service (Web)  
  R0181RY  $950
- X-ray Basic Service (Class/Lab)  
  R0182RY  $10,285
- Vascular Basic Service (Class/Lab)  
  R0195RY  $6,615
- Innova IQ Table Training (Web)  
  R0188RY  $2,590
- Innova x100 & Innova IGS 5x0 Systems Full Service Training  
  R0154RY  $25,185

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

The Innova Biplane Course introduces digital detectors to biplane cardiac and vascular labs. The course is designed for engineers who are responsible for servicing biplane systems. This audience requires learning only the differences between Innova single plane and Innova biplane. The skills learned in prior Innova courses will be applied to the unique requirements of the Innova biplane system. Labs and supporting classroom discussion explore the specific functions and features of biplane systems. Emphasis is placed on operation, applications, configuration, calibration, troubleshooting and repair using system documentation, functional block diagrams, and diagnostic software.

course competencies:

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

- Demonstrate safe practices when working on the system
- Identify major features and functionality of the Innova Biplane System
- Install the system without support, except for procedures that require physical assistance
- Maintain the system in good working order by performing periodic maintenance as required
- Perform system software loads
- Operate the Innova Biplane System at the application level
- Configure/reconfigure hardware settings and software options
- Perform system measurements, calibrations and adjustments
- Locate and identify the procedures to remove and replace commonly replaced parts (FRUs)
- Troubleshoot system problems to the subsystem and board (FRU) levels

Tuition:

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Delivery method: Class/lab

Length of course: 5 days

Pre-requisite required: Innova x100 & Innova IGS 5x0 Systems Full Service Training

Pre-requisite required:

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<tr>
<th>Program Information</th>
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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>
Innova™ IQ Table Training

The Innova IQ Table CBT is a self-paced, online course that is downloadable. It introduces the Elegance tilting table upgrade on Unity systems. This course is designed for engineers with prior Innova training and who will be responsible for installing, servicing, and providing support for Innova IQ Tables. The target audience includes primary Vascular Engineers, OnLine Center Engineers, and Field Engineers. The training will address only the differences between Innova Unity Single Plane and Innova Unity Single Plane with the Elegance Upgrade Kit. Emphasis is placed on site preparation, installation, configuration, calibration, operation, and servicing the Innova IQ Table.

**Product Number**

Tuition:

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**Delivery Method**

Web

**Length of Course**

4.5 hours

**Program Information**

Please visit www.gehealthcare.com/training for the most current information on dates and locations.
Innova™ Large Display Monitor (LDM) Option Training (Web)

Innova Large Display Monitor (LDM) Option Training is a web based training class. It provides an introduction to the components, features and basic operation on Innova IGS systems. It is self-paced and includes videos with audio. This course is for biomeds who have completed the Innova Systems Instructor Led course.

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

- Perform the installation or demonstrate the knowledge to perform installation of the Large Display Monitor (LDM)
- Operate the LDM at the applications level to verify system operation
- Configure and Calibrate the LDM
- Troubleshoot and repair the LDM
- Perform PMs on the LDM
- Demonstrate safe work practices while installing and servicing the LDM

product number
Tuition: R0199RY $3,300

delivery method
web

length of course
3 hours

pre-requisite required
Innova x100 & Innova IGS 5x0 Systems Full Service Training R0154RY $25,185

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

The Innova Pathfinder Course is a 2.5-day class that introduces several new applications and service features to the Innova family of systems. These include: Innova Vision (Fusion between fluoro images & 3D background and displayed on AW monitor), 3D Augmented Calibration (new 3D calibration allowing reconstruction of 3D volumes for all gantry & table positions), ECG signal acquisition and display on Innova/AW monitors, Subtracted 3D acquisition mode, Blended Roadmap, Dynamic FOV change, and diagnostics for new hardware and SUIF improvements. The course will be added to the end of the Vascular New Products (Harmony/Elegance) class and will also be offered as a stand-alone course for those who already had this class.

The audience requires learning only the differences between Pathfinder and previous Innova platforms (Unity, Elegance, Harmony). The skills learned in prior Innova courses will be applied to the unique requirements of the Innova Pathfinder system. Labs and supporting classroom discussion explore the specific functions and features of Pathfinder systems.

Emphasis is placed on operation, applications, configuration, calibration, troubleshooting and repair using system documentation, functional block diagrams, and diagnostic software.

**Program Information**

- **Product Number**
  - Tuition: R0194RY $5,900

- **Delivery Method**
  - Class/Lab

- **Length of Course**
  - 2.5 days

- **Pre-requisites Required**
  - Innova Systems Service (web) R0160RY $4,990
  - Innova IQ Table Training (Web) R0188RY $2,590

Please visit [www.gehealthcare.com/training](http://www.gehealthcare.com/training) for the most current information on dates and locations.
Innova™ Systems Service (Web)

This web-based course is divided into several modules that enable the service technician to access the training and support material in different ways.

**Course competencies:**

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

- Demonstrate safe practices and take appropriate safety measures against possible hazards while working with Innova systems
- Identify the features, functionality, and major components of the Innova systems
- Operate the Innova systems at the application level for performance evaluation of the system
- Load and configure Innova system software
- Perform mechanical and system calibrations in accordance with the documented procedures on the Innova systems
- Diagnose, troubleshoot, and repair the Innova systems using all available tools and documentation

**Product number**

Tuition: R0160RY $4,990

**Delivery method**

Web

**Length of course**

12 hours

**Program information**

Please visit www.gehealthcare.com/training for the most current information on dates and locations.
Innova™ x100 & Innova IGS 5x0 Systems Full Service Training

The Innova x100 & Innova IGS 5x0 Systems Course is a 10 day instructor-led class. It will equip the participant with the knowledge, skills, and abilities to operate, calibrate, troubleshoot, repair, and maintain current production Innova Systems at a Full Service level. Course time will be split between class discussions and hands-on time in lab. Emphasis is placed on operation, applications, configuration, calibration, troubleshooting and repair using system documentation, functional block diagrams, and diagnostic software.

Equipment covered:
Innova 2100IQ, 3100IQ, and 4100IQ starting at the Elegance/ Harmony configurations and continuing through current production (Innova IGS 520, 530, 540), including Optima™ versions. The Innova IQ table (Elegance) is included for hands-on activities.

Note: This course does not include Innova 2000 systems.

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

• Identify the features, functionality, and major components of the system.
• Identify the basic setup and configuration.
• Recognize how to operate the system in the application mode.
• Identify troubleshooting techniques and tools.
• Identify the basic calibration procedures and how they are performed.

product number
Tuition: R0154RY $25,185

delivery method
class/lab

length of course
10 days

pre-requisites required
- X-ray Basic Service (web) R0181RY $950
- X-ray Basic Service (class/lab) R0182RY $10,285
- Vascular Basic Service R0195RY $6,615

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

The Vascular Basic Service course consists of a one week in-residence class including class discussions and hands-on labs. It will equip the Service Engineer with the theory and physics of vascular x-ray and the ability to operate and identify several GE vascular x-ray systems at a basic service level.

The systems taught in the course include: Detector based Innova systems (i.e. Innova 2000, 2100, 3100, 4100) and Image intensifier based Advantx-E systems (i.e. LCA, LCV, with VIC and DLX).

Special Considerations: The course consists of 4 daily quizzes and 1 end of course exam.

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

- Demonstrate a working knowledge of physics and theory as it applies to vascular systems.
- Identify basic vascular system types and subsystems.
- Identify workstations and peripheral items and operate representative systems.
- Operate the system at an applications level to verify proper system operation.
- Perform Basic Service Level service procedures on vascular systems.
- Demonstrate safe work practices.
- Define basic DICOM and Networking terms and perform configuration.
- Assist with selected periodic/planned maintenance and calibrations, including electrical, mechanical and other adjustments to keep the system performing within specified limits.
- Perform selected system measurements.
- Remove and replace selected Basic Service Level parts to repair systems at the FRU level using functional

product number
Tuition: R0195RY $6,615

delivery method
class/lab

length of course
5 days

pre-requisites required
- X-ray Basic Service (web) $950 R0181RY
- X-ray Basic Service (class/lab) $10,285 R0182RY

program information
Please visit www.gehealthcare.com/training for the most current information on dates and locations.
Vascular New Products (Harmony & Elegance) Full Service

The Vascular New Products (Harmony & Elegance) Course class introduces new hardware, software, and applications features to Innova Plus single plane cardiac and vascular labs. The course is designed for engineers who are responsible for servicing Innova Plus systems and Unity with Elegance systems including primary Vascular Engineers, On-Line Center Engineers, and Field Engineers. This audience requires learning only the differences between previous versions of Innova single plane and current production single plane systems. The skills learned in prior Innova courses will be applied to the unique requirements of the Innova Plus and Unity with Elegance systems. Hands-on labs and supporting classroom discussions explore the specific functions and features of the Innova Plus and Unity with Elegance systems.

Emphasis is placed on operation, applications, configuration, calibration, troubleshooting and repair using system documentation, functional block diagrams, and diagnostic software.

**product number**
Tuition:  
R0189RY $10,285

**delivery method**
class/lab

**length of course**
5 days

**pre-requisites required**
- X-ray Basic Service (web)*  
  R0181RY $950
- X-ray Basic Service (class/lab)*  
  R0182RY $10,285
- Vascular Basic Service  
  R0195RY $6,615
- Innova IQ Table Training (Web)**  
  R0188RY $2,590
- Innova x100 & Innova IGS 5x0 Systems Full Service Training  
  R0154RY $25,185

* - Not needed if engineer has a solid X-ray background  
** - Required for any customer who has a system with an Elegance table

**program information**
Please visit www.gehealthcare.com/training for the most current information on dates and locations.
Diamond-Delta 32 Mammo Full Service

This course will equip the student with the ability to install, operate, calibrate, and troubleshoot at a Full Service level.

lab activities:
- Operation
- Calibration
- Installation information
- Troubleshooting
- Finding information in Service documentation

course competencies:
upon successful completion of this course, the student should be able to:
- Demonstrate safe practices and take appropriate safety measures against possible hazards while working with Diamond mammo systems
- Operate the systems at the application level for performance evaluation of the system
- Identify the features, functionality, and major components of the systems
- Identify the basic setup and configuration
- Identify troubleshooting techniques and tools
- Identify the basic calibration procedures and how they are performed

product number
Tuition:
R0151RY $6,165

delivery method
class/lab

length of course
5 days

pre-requisites required
- X-ray Basic Service (Web) R0181RY $950
- X-ray Basic Service (Class/Lab) R0182RY $10,285
- Diamond/Delta 32 Service (Web) R0167RY $850

program information
Please visit www.gehealthcare.com/training for the most current information on dates and locations.
Diamond/Delta 32 Service (Web)

This eLearning course includes the Diamond mammography unit and the Delta 32 digital option. The first unit covers the Diamond system. The second unit includes the Delta 32 and how it interfaces to the Diamond.

Each unit has four modules:

- System Overview
- Operation
- Calibration and Configuration
- Service and Troubleshooting

**product number**

Tuition: R0167RY $850

**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.
Digital Mammography Systems

This class will provide the hands-on training required to effectively service the GE digital Mammo Systems including Seno 2000D, Senographe DS and Senographe Essential Digital Mammography systems. Prerequisites to this class are basic mammography training or equivalent experience including, Older mammo fundamentals classes, or the current XR Basic Service class (which also covers mammo basics). Older Rad and Fluoro fundamentals classes will not meet the prerequisite requirements, as they did not include mammo basics.

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

- Install digital mammo systems
- Configure digital mammo systems
- Calibrate digital mammo systems
- Perform image quality testing on digital mammo systems
- Reload digital mammo systems operating and application software
- Troubleshoot and repair the systems to the Field Replaceable Unit (FRU) level 80% of the time without support
- Perform functional checks on the systems
- Perform required planned maintenance on the systems
- Backup and restore the Senographe Databases
- Install and Operate CAD System
- Define the differences between the 2000D, Seno DS, and the Seno Essential regarding functionality, hardware and service
- Operate and calibrate the Stereotactic units for both DS and Essential

Tuition:
R0185RY $22,555

delivery method
class/lab

length of course
9 days

pre-requisites required
- X-ray Basic Service (Web) R0181RY $950
- X-ray Basic Service (Class/Lab) R0182RY $10,285

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

The IDI MammoWorkstation (MWS) features softcopy reading with customizable hanging protocols and CAD display. The IDI MWS is suited for reading direct Digital Mammography (DR) and Computed Radiography (CR) images from major manufacturers, as well as for viewing digitized screen film images. The IDI MWS also displays other imaging modalities, such as Ultrasound and MRI for a comprehensive diagnostic review.

Note: This course is designed for those who need to install and service the IDI MammoWorkstation at a basic service level.

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

- Operate the IDI workstation at the applications level to verify proper system operation.
- Install the IDI workstation.
- Perform key planned maintenance on the IDI workstation.
- Use support interface to perform basic service on IDI.
- Identify and perform key steps when configuring for remote access.

product number

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delivery method
class/lab

length of course
4 days

pre-requisite recommended
- Networking and DICOM® Basics for DI Service
  R0907CM  $2,590

program information
Please visit www.gehealthcare.com/training for the most current information on dates and locations.
Performa/Diamond Mammo Challenge Exam (Web)

A challenge exam for entry into the Performa or Diamond In-Residence courses at GE Healthcare Institute. It covers mammo physics, applications and regulatory content from the Mammo System prerequisite course; minimum score 80 percent.

- **Product number**: R0176RY
- **Tuition**: $2,100
- **Delivery method**: Web
- **Length of course**: 1 hour
- **Program information**: Please visit [www.gehealthcare.com/training](http://www.gehealthcare.com/training) for the most current information on dates and locations.
Performa Mammography Full Service

The GE/Instrumentarium Performa Mammography System course will provide the instructional and hands-on opportunities for the student to acquire the fundamental competencies to effectively and safely service the Performa Mammography System.

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

• Demonstrate a good working understanding of the electrical, mechanical and radiation aspects of the Performa.
• Safely perform a physical assembly (installation) of the Performa
• Demonstrate a confident working knowledge of the functional operation and use of the Performa, and have a basic understanding of its circuit theory and design
• Demonstrate a good working knowledge of the Performa’s software and operating parameters
• Evaluate and calibrate the X-Ray generator
• Align and adjust (mechanical/electrical) the ECS/compression, vertical drive, collimation, Bucky, filter, and c-arm rotation systems
• Calibrate (electronic) the digital displays and software parameters
• Evaluate, adjust and calibrate the Vectre-AEC System and its related software operating parameters
• Install and demonstrate a good working knowledge of the Performa & Alpha AEC Calibration software tool
• Troubleshoot and repair the Performa to the Field Replacement Unit (FRU) level 80% of the time without support
• Perform a planned maintenance inspection (PMI) on the Performa

product number
Tuition:
   R0150RY  $6,165

delivery method
class/lab

length of course
5 days

pre-requisites required
- X-ray Basic Service (Web) R0181RY  $950
- X-ray Basic Service (Class/Lab) R0182RY  $10,285
- Digital Mammography Systems (Class/Lab) R0185RY  $22,555

note: the Performa/Diamond Mammography Challenge Exam may be taken in place of Digital Mammography Systems

program information
Please visit www.gehealthcare.com/training for the most current information on dates and locations.
SenoClaire™: GE Breast Tomosynthesis Full Service Training

The GE Breast Tomosynthesis Training is an online service training course designed for participants who are Senographe™ Essential trained. This course will provide information on installing and servicing the GE breast tomosynthesis option.

**Note:** An end of course exam should be taken after completing the material and a score of 80% or greater is required to receive credit for this training.

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

- Operate the tomosynthesis option at an applications level to verify proper system operation
- Install the GE breast tomosynthesis option
- Perform Service on GE breast tomosynthesis option

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**product number**
Tuition:
- R0204RY $1,625

**delivery method**
online

**length of course**
3 days

**pre-requisites required**
- Digital Mammography Systems (Class/Lab) R0185RY $22,555

**program information**
Please visit www.gehealthcare.com/training for the most current information on dates and locations.
Senographe™ Essential Differences

This is a prerequisite to Seno DS in-resident course. Objectives are to teach the student the differences between the Seno DS and the Essential. It is designed for those who have already taken the Seno DS class and just need the Seno Essential differences.

Note: If the student enrolls in a Seno DS class going forward, Essential is covered in that course, and they will not need this web course.

- **Product number**
  - Tuition: R0172RY $850

- **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.
Senographe™ Essential Stereotaxy Training

Online course designed for Engineers who are trained thru Senographe DS/Essential (R0185RY or R0153RY). This course will provide information on servicing and upgrading the system as well as differentiating between the Essential and DS Stereo Units.

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<td>R0186RY</td>
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| program information     | Please visit www.gehealthcare.com/training for the most current information on dates and locations.
AMX™-4 Full Service

This course introduces the AMX-4 portable X-ray system. Upon completion of this course, the student will be proficient in the service and maintenance of this unit.

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

- Install the AMX-4 utilizing approved procedures and protocols
- Perform applicable functional checks
- Perform preventive maintenance checks
- Perform assembly/disassembly procedures; identify major component locations
- Safely service mechanical components using existing field service tools and procedures
- Troubleshoot to board/item level using appropriate service documentation, diagnostics, and peripheral test equipment

product number
Tuition:
R0103RY $4,015

delivery method
class/lab

length of course
3 days

pre-requisite required
- X-ray Basic Service (Web) R0181RY $950
- X-ray Basic Service (Class/Lab) R0182RY $10,285

program information
Please visit www.gehealthcare.com/training for the most current information on dates and locations.
Brivio™ XR385 Differences Training

The Brivo XR385 Differences Training is a differences course targeted for experienced service engineers who have taken the Digital Rad Systems Full Service class. The purpose of this training is to give a high-level introduction to the system, highlighting what is unique and different. The exam should be taken after studying the web course material.

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

• Demonstrate safe practices and take appropriate safety measures against possible hazards while working with the systems
• Operate the systems at the application level for performance evaluation of the system
• Identify the features, functionality, and major components of the systems
• Identify the basic setup and configuration
• Identify troubleshooting techniques and tools
• Identify the basic calibration procedures and how they are performed

Note: Moving forward this content will be covered in the Digital Rad Systems Full Service Class.

• Identify the basic subsystems, components and their functions.
• Identify safety precautions for the system.
• Identify the high-level installation requirements for the system.
• Fault/Isolate system errors using standard and advanced service documentation and diagnostics.
• Identify key laptop procedures.

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

product number
Tuition:
R0190RY $2,100

delivery method
web

length of course
3 hours

pre-requisite required
Digital Rad Systems Full Service (Class/Lab)
R0122RY $14,315
Definium™ 5000 System Service

This course will provide comprehensive hands-on training for the Definium 5000 Radiographic System including:

- System configuration & calibration
- Applications and operation
- Installation
- Troubleshooting

**product number**

Tuition:

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**delivery method**

class/lab

**length of course**

5 days

**pre-requisites required**

- X-ray Basic Service (Web) R0181RY $950
- X-ray Basic Service (Class/Lab) R0182RY $10,285

**program information**

Please visit www.gehealthcare.com/training for the most current information on dates and locations.
Definium™ AMX™ 700 Service Training

This is a differences course for the digital, portable AMX-4 and Definium AMX 700. Training only includes the digital aspects of the system.

**product number**
Tuition:
- R0165RY $2,665

**delivery method**
class/lab

**length of course**
2 days

**pre-requisites required**
- X-ray Basic Service (Web)
  - R0181RY $950
- X-ray Basic Service (Class/Lab)
  - R0182RY $10,285
- AMX-4 Full Service (Class/Lab)
  - R0103RY $4,015

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

The XR Digital Rad Systems full service training is a blended course, consisting of self-paced pre-work and one week of in-residence class and labs. It will equip the participant with the ability to install, operate, calibrate, and troubleshoot at a Full Service level. The systems taught in the course include: Definium 8000, Brivo XR385, Optima XR640, Discovery XR650 and Discovery XR656.

Lab activities:
- Operation
- Calibration
- Installation information
- Troubleshooting
- Finding information in Service documentation

Course competencies:
Upon successful completion of this course, the student should be able to:
- Demonstrate safe practices and take appropriate safety measures against possible hazards while working with the systems.
- Operate the systems at the application level for performance evaluation of the system.
- Identify the features, functionality, and major components of the systems.
- Identify the basic setup and configuration.
- Identify troubleshooting techniques and tools.
- Identify the basic calibration procedures and how they are performed.

Product number:
Tuition:
- R0122RY $14,315

Delivery method:
class/lab

Length of course:
5 days

Pre-requisites required:
- X-ray Basic Service (Web) R0181RY $950
- X-ray Basic Service (Class/Lab) R0182RY $10,285

Program information:
Please visit www.gehealthcare.com/training for the most current information on dates and locations.
Discovery™ XR650 & Optima™ XR640 Differences Service Training

The service engineer qualified to take this course should have experience on the Definium 8000 system and should be able to perform the following tasks:

- Load from cold
- Positioner calibration
- Network and site configuration
- CANBus diagnostics
- Detector coolant replacement

**Course competencies:**

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

- Identify the new features and functionality of the major components of the systems
- Identify new pre-installation/installation requirements
- Identify the basic setup and configuration(s) of the new systems
- Identify new safety features on the systems
- Identify new software functions
- Identify new SUIF/CSD features
- Identify the new communications/power paths for the systems

### Product number

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### Delivery method

Web

### Length of course

4 hours

### Prerequisite required

Digital Rad Systems Full Service (Class/Lab)

| R0122RY | $14,315 |

### Program information

Please visit www.gehealthcare.com/training for the most current information on dates and locations.
**Discovery™ XR656 Differences Training**

The Discovery XR656 Differences training is a web based training course. It highlights what is new and unique with the Discovery XR656 system, FlashPad and associated components compared to the Discovery XR650 system. The course is designed for Service Engineers who are already trained on Discovery XR650.

The course consists of two stand-alone modules:
- Discovery XR656
- FlashPad (Wireless detector)

The training is self-paced and each module is downloadable. There is an end of course exam for each module.

**course competencies:**

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

- Operate the system with the FlashPad at a functional and operational software level to assess system performance and duplicate customer complaints.
- Install the FlashPad's associated hardware using appropriate tools, test equipment, calibration and safety procedures.
- Perform key planned maintenance and calibrations, including electrical, mechanical and other adjustments to keep the system performing within specified limits.
- Fault isolate system errors using standard and advanced service documentation, tools, and diagnostics and repair/replace parts as required.

**product number**

Tuition:
- R0196RY $2,590

**delivery method**

web

**length of course**

3 hours

**program information**

Please visit www.gehealthcare.com/training for the most current information on dates and locations.
Optima™ XR220amx, XR200amx & Brivo™ XR285amx Full Service Training

The Optima XR220 AMX, XR200 AMX & Brivo XR285 AMX Full Service training is a blended course consisting of pre-work on the FlashPad, in-resident lecture/labs and an end of course exam on the next generation mobile X-ray systems. Before enrolling in this course, you must be XR Basic Service trained or have equivalent experience.

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

- Identify the purpose and high level content of the System manuals.
- Demonstrate safe work practices.
- Install the system using appropriate tools, test equipment, calibration and safety procedures.
- Operate the system at functional and operational software level to assess system performance and duplicate customer complaints.
- Perform key system measurements, calibrations, configurations and adjustments.
- Perform key planned maintenance and calibrations, including electrical, mechanical and other adjustments to keep the system performing within specified limits.
- Fault isolate system errors using standard and advanced service documentation, tools, and diagnostics.
- Remove and replace parts to repair systems at the FRU level using functional checks and performance tests to ensure proper operation.

Product number
Tuition:
R0191RY  $4,015

delivery method
class/lab

length of course
3.5 days

pre-requisites required
- X-ray Basic Service (Web) R0181RY  $950
- X-ray Basic Service (Class/Lab) R0182RY  $10,285

pre-requisite recommended
Optima XR220amx and XR200amx Wireless Basic Service Training (Web) R0203RY  $545

program information
Please visit www.gehealthcare.com/training for the most current information on dates and locations.
Optima™ XR220amx and XR200amx
Wireless Basic Service Training (Web)

The XR Optima XR220amx and XR200amx Wireless Basic Service Training will introduce a variety of wireless concepts and build upon them to the troubleshooting level. The class will cover RF Properties, IP addressing, network hardware, configuring wireless parameters and troubleshooting tools.

Equipment Covered: Wireless technology as it relates to XR Optima XR220amx and XR200amx

Note: This course is recommended for the engineer that wants additional WiFi information in regards to their Optima XR220amx or Optima XR200amx. This training is not applicable to Brivo Systems.

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

• Recognize classes of IP addresses, what the parts of the address mean, and how to assign corresponding subnet masks
• Configure network properties
• Configure wireless system parameters
• Explain wireless-related processes
• Identify network topology and function
• Differentiate the basic properties of RF
• Determine the properties of 802.11 a, b, g, n, Zigbee and UWB
• Perform basic troubleshooting commands

product number
Tuition:
R0203RY $545

delivery method
web

length of course
3 hours

program information
Please visit www.gehealthcare.com/training for the most current information on dates and locations.
**Precision™ 500D Aurora Differences (Web)**

The objective of this course is to introduce the Precision 500D trained engineer, the new features and hardware in the Aurora System, specifically the following:

- Identify the new hardware in the Aurora
- Explain the high level function of the new hardware
- Identify the new service features
- Identify the new communication paths through the system
- Explain the system power on/off, reset and emergency off sequences

**Course competencies:**

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

- Identify the purpose and high level content of the System manuals.
- Demonstrate safe work practices.
- Install the system using appropriate tools, test equipment, calibration and safety procedures.
- Operate the system at functional and operational software level to assess system performance and duplicate customer complaints.
- Perform key system measurements, calibrations, configurations and adjustments.
- Perform key planned maintenance and calibrations, including electrical, mechanical and other adjustments to keep the system performing within specified limits.
- Fault isolate system errors using standard and advanced service documentation, tools, and diagnostics.
- Remove and replace parts to repair systems at the FRU level using functional checks and performance tests to ensure proper operation.

**Product number**

| Tuition | $4,990 |
---|---|
| R0180RY | |

**Delivery method**

- Web

**Length of course**

1 hour

**Pre-requisites required**

- X-ray Basic Service (Web) R0181RY $950
- X-ray Basic Service (Class/Lab) R0182RY $10,285
- Precision 500D Theory (Web) R0137RY $5,990
- Precision 500D Service (Class/Lab) R0138RY $11,325

**Program information**

Please visit www.gehealthcare.com/training for the most current information on dates and locations.
Precision™ 500D Service

This course provides the skills needed to operate, calibrate, troubleshoot and support the Precision 500D.

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

• Operate the Precision 500D
• Locate assemblies and sub-assemblies on the Precision 500D
• Identify system communication and power distribution routes
• Configure the options, user preferences and network parameters on the Precision 500D
• Calibrate the Precision 500D
• Backup and restore configuration and calibration data
• Perform a load from cold
• Evaluate image quality
• Access and interpret error logs in troubleshooting situations
• Identify the field replaceable unit (FRU) level

product number
Tuition: $11,325

R0138RY

delivery method
class/lab

length of course
5 days

pre-requisites required
- X-ray Basic Service (Web) $950
  R0181RY
- X-ray Basic Service (Class/Lab) $10,285
  R0182RY
- Precision 500D Theory (Web) $5,990
  R0137RY

program information
Please visit www.gehealthcare.com/training for the most current information on dates and locations.
Precision™ 500D Theory Service (Web)

This course focuses on the Precision 500D: a full-featured, classical Rad and Fluoro system. It provides an overview of the Precision system, which includes a review of the Common Service Desktop, operator controls, application modes and safe working practices.

**product number**
Tuition: 
  R0137RY $5,990

**delivery method**
web

**length of course**
4 hours

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

The Precision RXi Technical Training will equip the service engineer with the ability to install, operate, calibrate, and troubleshoot at a Full Service level.

**lab activities:**
- Operation
- Calibration
- DICOM Networking
- Troubleshooting
- Finding information in Service documentation

**course competencies:**
Upon successful completion of this course, the student should be able to:
- Operate the Precision RXi
- Locate assemblies and sub-assemblies on the Precision RXi
- Identify system communication and power distribution routes
- Configure the options, user preferences and network parameters on the Precision RXi
- Calibrate the Precision RXi including OTS and Wallstand
- Backup and restore configuration and calibration data
- Create a ghost image of the digital PC
- Flash software to applicable positioner and digital components
- Evaluate image quality
- Access and interpret error logs in troubleshooting situations
- Identify the Field Replaceable Unit (FRU) Level
- Connect remotely to the system using ISD
- Identify planned maintenance procedures
- Identify HHS tests required

**product number**
Tuition:
- R0158RY  $10,285

**delivery method**
class/lab

**length of course**
9 days

**pre-requisites required**
- X-ray Basic Service (Web)  
  R0181RY  $950
- X-ray Basic Service (Class/Lab)  
  R0182RY  $10,285
- Networking and DICOM Basic for DI Service (Web)  
  R0907CM  $2,590

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

Proteus XR/a Training is a web based training product. It provides an introduction to the components, features and operation of the Proteus XR/a radiographic system offering information on the calibration, set-up, and basic troubleshooting for the Proteus XR/a. The test, which includes 4 test modules, should be taken after studying the web course material.

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

- Identify and list the features, options, and limitations of the Proteus system
- Use the laptop tool to troubleshoot and calibrate the Proteus system
- Use service diagnostic tools for troubleshooting the Proteus system
- Operate, calibrate, and troubleshoot the Jedi generator, AEC, and Proteus Collimator

product number
Tuition:
R0128RY  $5,990

delivery method
web

length of course
9 hours

pre-requisites required
- X-ray Basic Service (Web)
  R0181RY  $950
- X-ray Basic Service (Class/Lab)
  R0182RY  $10,285

program information
Please visit www.gehealthcare.com/training for the most current information on dates and locations.
Revolution Digital Rad Systems Service (Web)

The systems taught in the course include the following:

- Revolution XRd-2X (Lightning)
- Definium 8000 (Thunder)

Completion of this web course (including the test) is required prior to the one week, in-resident course.

**product number**

Tuition:

- R0161RY $3,300

**delivery method**

web

**length of course**

7 hours

**program information**

Please visit www.gehealthcare.com/training for the most current information on dates and locations.
Wireless DR Imaging “FlashPad™” (Web)

The Precision 500D and Proteus Wireless DR Imaging Option System training is a web based training course. It introduces the wireless detector (FlashPad) to the Precision 500D and Proteus systems. The course is designed for Engineers who have attended Precision 500D or completed Proteus web training, and have attended XR Digital Rad Systems course.

Note: If the engineer hasn’t attended XR Digital Rad Systems, they should purchase Wireless DR Imaging (Class/Lab) instead.

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<td>or</td>
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<td>- Proteus XRa Service (Web)</td>
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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>
X-ray Basic Service

The XR Basic Service in-resident course will provide the student with the theory and physics of x-ray and the ability to operate and identify x-ray systems at a basic service level. The course will provide classroom instruction as well as hands-on lab training on a variety of R&F systems.

lab activities:
- Operation
- Power Up/Down
- Image Acquisition
- Image Archive (where applicable)
- Simple non-invasive repairs
- X-ray Principles

product number
Tuition:
- R0182RY $10,285

delivery method
class/lab

length of course
7 days

pre-requisites required
- X-ray Basic Service (Web)
  R0181RY $950

program information
Please visit www.gehealthcare.com/training for the most current information on dates and locations.
X-ray Basic Service (Web)

This course consists of 2 sections: Prerequisite and Reference course material.

**Prerequisite course material includes:**
Studying the prerequisite material and passing the 2 tests are required before attending the corresponding in-resident course X-RAY Basic Service.

- Radiographic Basic Applications
- Fluoroscopic Basic Applications

**Reference course material includes:**
The reference course material is not required, but contains information that will be very beneficial for you to review before attending the in-resident course.

- X-ray Basic Principles
- Radiographic Components
- Fluoroscopic Components

**Product number**
Tuition: R0181RY $950

**Delivery method**
web

**Length of course**
1.5 days

**Program information**
Please visit www.gehealthcare.com/training for the most current information on dates and locations.
X-ray Basic Service: Challenge Exam

This exam is for engineers with considerable service experience and wish to get credit for XR Basic Service (Class/Lab). This exam will cover the competencies listed in the description of the in-resident course. If you fail the challenge exam, you must attend the X-Ray Service Basic in-resident course and pass the end of course test to receive credit.

**Product number**
Tuition: 
R0183RY $1,000

**Delivery method**
web

**Length of course**
4 hours

**Program information**
Please visit www.gehealthcare.com/training for the most current information on dates and locations.
Advantage Workstation™ 4.1/4.2 Service (Web)

This training will support the service engineer as they install the Advantage Workstation 4.1 and 4.2 products across modalities and will cover the following topics:

- Safety
- System Overview
- Install/Configure
- Troubleshooting
- System Operation
- Version differences between Advantage Workstation 4.0, 4.1, and 4.2

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

- Identify the features, functionality, and major components of the system
- Identify the basic setup and configuration
- Recognize how to operate the system in the application mode
- Identify troubleshooting techniques and tools
- Identify the differences between the AW 4.0, 4.1, and 4.2 products

Tuition:

R0902CM $2,100

Delivery method:
Web

Length of course:
6 hours

Program information:
Please visit www.gehealthcare.com/training for the most current information on dates and locations.
Networking and DICOM® Basics for DI Service

This online course prepares the service engineer to configure and troubleshoot networks that use the DICOM protocol for transferring patient data. Participants will also learn how to read and use DICOM Conformance Statements.

**Course competencies:**

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

- Explain the basics of 7-layer OSI networking model
- Configure IP on any GE diagnostic imaging (DI) system and workstation to work in a local network by using the parameters supplied by the local IT department
- Configure the DICOM parameters in GE workstations and DI systems to exchange information with any other DICOM system by using parameters supplied by GE or the local IT department
- Verify that the IP address, netmask and routing address are configured correctly
- Verify the DICOM parameters are correct
- Perform troubleshooting using ping, telnet and DICOM ping to determine if the problem is related to the network or DICOM

**Product number**

Tuition:
- R0907CM $2,590

**Delivery method**

Web

**Length of course**

5 hours

**Program information**

Please visit www.gehealthcare.com/training for the most current information on dates and locations.
Essentials of Healthcare IT<sup>SM</sup>

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

**product number**

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*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.

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