

GE Healthcare

Education Services

# Monitoring Solutions

2011 Technical Education



imagination at work

### Instructor-Led Courses

ApexPro® Channelized (CH) Telemetry .....	1
ApexPro® Frequency Hopping (FH) Telemetry .....	2
Cardiicap®/5 Online Distance Learning .....	3
CARESCAPE™ Monitor B650 .....	4
CARESCAPE™ Monitor B850 .....	5
Clinical Information Center Series (CIC) .....	6
Clinical Information Center v5 .....	7
Dash® Series .....	8
Enterprise Access with CH .....	9
Enterprise Access with FH .....	10
FM Monitor .....	11
iCentral® and Mobile Viewer® .....	12
iCentral Connectivity Gateway .....	13
Integrated Patient Monitoring .....	14
S/5 Anesthesia & Compact Monitors .....	15
S/5 MRI Monitor .....	16
Solar® 9500 .....	17
Solar® Series .....	18

### Self-Paced Courses

Aware Gateway V1.3 .....	19
Corometrics 120 Series Maternal/Fetal Monitors .....	20
Corometrics 250 Series Maternal/Fetal Monitors .....	21
Corometrics 250cx Series for Technical and Clinical Professionals - CD .....	22
Capnomac Ultima® .....	23
CARESCAPE V100 .....	24
CRITIKON .....	25
Dash 2500 .....	26
iPanel v2 Clinical & Admin Training CD .....	27

### Healthcare IT Courses

Essentials of Healthcare IT <sup>SM</sup> .....	28
Securing the Healthcare IT Environment <sup>SM</sup> .....	29
Wireless in the Healthcare IT Environment <sup>SM</sup> .....	30
Essentials of HL7® .....	31
Essentials of DICOM® .....	32

# Technical Education

## Education Centers

**Waukesha, WI** - The Healthcare Institute has expanded to include classrooms to support anesthesia classes and our new Healthcare IT curriculum.

**Madison, WI** - Our original center of learning for life support device education now includes our new Healthcare IT curriculum.

**Jupiter, FL** - Our center of excellence for patient monitoring product support now includes new classrooms featuring our new Healthcare IT 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](http://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.

### 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. Open-toe, high-heel shoes or sandals are not permitted.

## About Technical Education from GE Healthcare

GE Healthcare Education Services delivers technical education for Diagnostic Imaging, Ultrasound, Monitoring, Diagnostic Cardiology, Infant Care and Anesthesia Delivery Systems and Respiratory products. We also offer a curriculum of Healthcare IT classes focused specifically on the needs of today's biomedical and technical professionals.

**Our goal** is 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 Healthcare IT education regardless of medical equipment choices, previous learning or experience.

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## Added value for your education investment

College credit is available for many of our classes, both technical and Healthcare IT, through the University of Phoenix and DeVry University. If you are working toward a degree, or contemplating one, these classes may bring you closer to completion. Visit [www.gehealthcare.com/training](http://www.gehealthcare.com/training) and choose "College Credit for Technical Training" for more information on these programs.

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

**1-888-799-9921**

# Student Information

## Registration Instructions

Registration is online. Go to [www.gehealthcare.com/training](http://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.

Students enrolling in Patient Monitoring Systems technical classes are required to submit the Technical Agreement & Employment Verification Form located on the electronic form. Print a copy of the form, complete and sign. Fax signed form to 1-262-546-0997.

Confirmation of enrollment is sent via e-mail from CorpMyLearning within 2 business days.

### Policies and Terms

- Accepted via email or phone: 888-799-9921 or [edservices@ge.com](mailto:edservices@ge.com)
- Must be received 15 business days prior to the course start date
- A \$1,000 per week "no-show" or cancellation fee will be incurred if a student does not show up for class or does not cancel before the 15 business day window
- GE reserves the right to cancel or reschedule any class. 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

### Attendance

- Students are required to arrive on time for class.
- Class start and end times vary. Please refer to your e-mail enrollment notification.
- A "no-show" is not eligible for tuition reimbursement.
- Students must pass an assessment to receive certificate of successful completion.

### Cancellations

- Must be received 15 business days prior to the scheduled start date.
- Accepted via e-mail or phone.
- Fee of 50% will be charged of total tuition for cancellations less than 15 days of the scheduled class date.

### 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.

Many classes contain lecture and lab exercises requiring networking skills. The fundamentals of networking are not covered in products classes.

### IT Pre-requisites

The following IT skills are required prior to enrollment.\*

IP Addressing
Switch Troubleshooting
Troubleshooting Wireless Networks
Subnetting
Router Configuration
Network Connectivity
Hard Drives
Access Control Lists
Communication Paths
Hardware Replacement
Router Troubleshooting
Network Troubleshooting
Hubs
POST
Back-up Systems
Switch Port Configuration
Access Point Configuration

\* Courses requiring Healthcare IT competency are identified on the course description page

### Accepted demonstration of Healthcare IT competency:

- CompTIA Network+®, Microsoft MCP®, or Cisco CCNA® certification
- Essentials of Healthcare IT<sup>SM</sup>
- Participants may complete a test to demonstrate IT competencies required for specific courses.

## ApexPro® Channelized (CH) Telemetry

This technical service class, for the Apex Pro Channelized (CH) Telemetry system components, illustrates the practical skills needed to configure and troubleshoot the system. Participants are involved in clinical software navigation and the comprehension of software configuration and service tools. The course provides a detailed explanation of individual hardware and software and their integration and interconnectivity with other system components. Participants will analyze the RF environment with a spectrum analyzer, program patient transmitters, configure Telemetry Server software and remotely diagnose Server problems.



## Intended Audience

- Biomedical equipment technicians
- Biomedical and clinical engineers

## Customer Requirements

Customers are required to bring a computer laptop to class. The laptop will be used to view electronic documentation and operate software service tools, which are provided during class.

### Computer Laptop Requirements:

- Hardware: PC based (not Mac®), Wireless Network Card, DB 9 Serial port, CD ROM, USB port, AC Power Cord
- Operating System: Microsoft Windows® 2000 or XP Professional only
- Software: Microsoft Internet Explorer ver. 5.5 or greater, Microsoft Windows Media Player® 10 or greater, Adobe Reader® (latest version), latest Adobe Flash® plug-ins, HyperTerminal or other terminal emulation program.
- Local administrator access
- Ability to disable spyware and virus scan programs
- No other versions of Ghost previously installed

### Purchase Packages:

#### Tuition:

BT1125-001                      \$8,355

#### Tuition & lodging:

BT1125-005                      \$9,280

#### Tuition, lodging & air:

BT1125-010                      \$10,175\*

\* US only

**Delivery Method:** Classroom

### Recommended Pre-Requisites:

- Clinical Information Center Series (CIC) or Clinical Information Center (CIC) V.5
- GE Essentials of Healthcare IT or equivalent

**Length of Course:** 5 days

### Course Location:

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

For list of core IT skills, see chart on the Student Information page.

## ApexPro® Frequency Hopping (FH) Telemetry

This technical service class, for the Apex Pro Frequency Hopping (FH) Telemetry system components, illustrates the practical skills needed to configure and troubleshoot the system. Participants are involved in clinical software navigation and the comprehension of software configuration and service tools. The course provides a detailed explanation of the individual hardware and software components, their integration and interconnectivity with other system components. Through hands-on labs, participants will reload access point software, program patient transmitters, configure Telemetry Server software, and remotely diagnose Server problems.



### Intended Audience

- Biomedical equipment technicians
- Biomedical and clinical engineers

### Customer Requirements

Customers are required to bring a computer laptop to class. The laptop will be used to view electronic documentation and operate software service tools, which are provided during class.

#### Computer Laptop Requirements:

- Hardware: PC based (not Mac®), Wireless Network Card, DB 9 Serial port, CD ROM, USB port, AC Power Cord
- Operating System: Microsoft Windows® 2000 or XP Professional only
- Software: Microsoft Internet Explorer ver. 5.5 or greater, Microsoft Windows Media Player® 10 or greater, Adobe Reader® (latest version), latest Adobe Flash® plug-ins, HyperTerminal or other terminal emulation program.
- Local administrator access
- Ability to disable spyware and virus scan programs
- No other versions of Ghost previously installed

#### Purchase Packages:

##### Tuition:

BT1127-001 \$8,355

##### Tuition & lodging:

BT1127-005 \$9,280

##### Tuition, lodging & air:

BT1127-010 \$10,175\*

\* US only

**Delivery Method:** Classroom

#### Recommended Pre-Requisites:

- Clinical Information Center Series (CIC) or Clinical Information Center (CIC) V.5
- GE Essentials of Healthcare IT or equivalent

**Length of Course:** 5 days

#### Course Location:

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

For list of core IT skills, see chart on the Student Information page.

## Cardiacap®/5 Online Distance Learning

The Cardiacap/5 technical class offers participants the opportunity to gain an understanding of the monitor's hardware, software, operation and communication. Participants will reinforce concepts and skills learned, by completing structured labs. Troubleshooting, repair, replacement, and planned maintenance are discussed and demonstrated.

### Intended Audience

- Biomedical equipment technicians
- Biomedical and clinical engineers

### Customer Requirements

- Must be able to connect to Internet
- Phone access (preferably speaker phone)



#### Tuition:

7000-0001-508                      \$3,035

**Delivery Method:** Web-based,  
instructor-led

**Length of Course:** 2 days

#### Course Details:

Remote instructor-led class is conducted via teleconference and the Internet. Students view the class material online and have interactive lecture time. To provide hands-on lab experience, training equipment will be shipped to the student for one-time use. (US only. Canadian customers must provide or have available their own equipment).

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## CARESCAPE™ Monitor B650

The goal of the CARESCAPE Monitor B650 course is to teach the theory and operation of the CARESCAPE Monitor B650 in the wired and wireless network environment. This course provides hands-on experience using the Webmin service interface to configure default settings, activate the options and features licenses, perform the calibration procedures for supported hemodynamic parameter modules, and Airway Gas module. The CARESCAPE Monitor B650 course covers corrective maintenance, planned maintenance procedures, software transfer procedures, and service special tools.

Students will gain experience creating the wireless and wired networks the B650 Monitor will reside. Students will be actively involved in Information Technology discussions and activities that will help the student better understand how to troubleshoot the CARESCAPE Monitor B650, as well as the wired or wireless network, where the CARESCAPE Monitor B650 will reside.

### Intended Audience

- Biomedical equipment technicians
- Biomedical and clinical engineers

### Customer Requirements

Customers are required to bring a computer laptop to class. The laptop will be used to view electronic documentation and operate software service tools, which are provided during class.

Computer Laptop Requirements:

- Hardware: PC based (not Mac®), Wireless Network Card, DB 9 Serial port, CD ROM, USB port, AC Power Cord
- Operating System: Microsoft Windows® 2000 or XP Professional only
- Software: Microsoft Internet Explorer ver. 5.5 or greater, Microsoft Windows Media Player® 10 or greater, Adobe Reader® (latest version), latest Adobe Flash® plug-ins, HyperTerminal or other terminal emulation program.
- Local administrator access
- Ability to disable spyware and virus scan programs
- No other versions of Ghost previously installed

### Purchase Packages:

#### Tuition:

2020786-231 \$13,795

#### Tuition & lodging:

2020786-232 \$15,875

#### Tuition, lodging & air:

2020786-19 \$16,770\*

\* US only

**Delivery Method:** Classroom

**Length of Course:** 10 days

### Course Location:

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

### Required IT Skills:

- GE Essentials of Healthcare IT or equivalent

For list of core IT skills, see chart on the Student Information page.

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## CARESCAPE™ Monitor B850

The goal of the CARESCAPE Monitor B850 course is to teach the theory and operation of the CARESCAPE Monitor B850, use of the Webmin service interface, configuration, licensing the options and features, calibration and maintenance of the supported patient parameter E-Modules and Trams(R), as well as corrective and planned maintenance procedures, software transfer procedures and special service tools.

### Intended Audience

- Biomedical equipment technicians
- Biomedical engineers



### Customer Requirements

Customers are required to bring a computer laptop to class. The laptop will be used to view electronic documentation and operate software service tools, which are provided during class.

#### Computer Laptop Requirements:

- Hardware: PC based (not Mac®), Wireless Network Card, DB 9 Serial port, CD ROM, USB port, AC Power Cord
- Operating System: Microsoft Windows® 2000 or XP Professional only
- Software: Microsoft Internet Explorer ver. 5.5 or greater, Microsoft Windows Media Player® 10 or greater, Adobe Reader® (latest version), latest Adobe Flash® plug-ins, HyperTerminal or other terminal emulation program.
- Local administrator access
- Ability to disable spyware and virus scan programs

#### Purchase Packages:

##### Tuition:

2020786-193                      \$8,295

##### Tuition & lodging:

2020786-194                      \$9,220

##### Tuition, lodging & air:

2020786-195                      \$10,115\*

\* US only

**Delivery Method:** Classroom

**Length of Course:** 5 days

#### Course Location:

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

#### Required IT Skills:

- GE Essentials of Healthcare IT or equivalent

For list of core IT skills, see chart on the Student Information page.

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## Clinical Information Center Series (CIC)

This class teaches the practical skills needed to understand, configure and troubleshoot the various Clinical Information Center (CIC) systems. Multiple hardware and software versions are covered in the course and course materials. Participants learn software navigation, as well as software configuration and service tools. In addition, the course provides a detailed explanation of the individual hardware components, planned maintenance procedures and troubleshooting techniques to improve service skills. Participants will also learn about integration and interconnectivity with patient monitors to expand system capabilities. Hands-on labs give practical experience, while reinforcing principles learned in class.



### Intended Audience

- Biomedical equipment technicians
- Biomedical and clinical engineers

### Customer Requirements

Customers are required to bring a computer laptop to class. The laptop will be used to view electronic documentation and operate software service tools, which are provided during class.

#### Computer Laptop Requirements:

- Hardware: PC based (not Mac®), Wireless Network Card, DB 9 Serial port, CD ROM, USB port, AC Power Cord
- Operating System: Microsoft Windows® 2000 or XP Professional only
- Software: Microsoft Internet Explorer ver. 5.5 or greater, Microsoft Windows Media Player® 10 or greater, Adobe Reader® (latest version), latest Adobe Flash® plug-ins, HyperTerminal or other terminal emulation program.
- Local administrator access
- Ability to disable spyware and virus scan programs
- No other versions of Ghost previously installed

#### Purchase Packages:

##### Tuition:

2030677-014                 \$7,585

##### Tuition & lodging:

2030677-015                 \$8,510

##### Tuition, lodging & air:

2030677-016                 \$9,405\*

\* US only

**Delivery Method:** Classroom

**Length of Course:** 5 days

#### Course Location:

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

#### Recommended IT Skills:

- GE Essentials of Healthcare IT or equivalent

For list of core IT skills, see chart on the Student Information page.

## Clinical Information Center v5

This technical service class, for the Clinical Information Center (CIC) v5 and peripherals, illustrates the practical skills needed to configure and troubleshoot the v5 system. Participants are involved in software navigation and the comprehension of software configurations to aid in troubleshooting technical and clinical issues. Explanation of the individual hardware and software components, installation configuration procedures, planned maintenance procedures and troubleshooting techniques are provided to improve service skills. Learn about integration and Interconnectivity with patient monitors to expand system capabilities. This course is specific to and covers only material for the software version 5 of CIC.

## Intended Audience

- Biomedical equipment technicians
- Biomedical and clinical engineers

## Customer Requirements

Customers are required to bring a computer laptop to class. The laptop will be used to view electronic documentation and operate software service tools, which are provided during class.

Computer Laptop Requirements:

- Hardware: PC based (not Mac®), Wireless Network Card, DB 9 Serial port, CD ROM, USB port, AC Power Cord
- Operating System: Microsoft Windows® 2000 or XP Professional only
- Software: Microsoft Internet Explorer ver. 5.5 or greater, Microsoft Windows Media Player® 10 or greater, Adobe Reader® (latest version), latest Adobe Flash® plug-ins, HyperTerminal or other terminal emulation program.
- Local administrator access
- Ability to disable spyware and virus scan programs
- No other versions of Ghost previously installed



### Purchase Packages:

#### Tuition:

2020786-060 \$5,175

#### Tuition & lodging:

2020786-061 \$5,730

#### Tuition, lodging & air:

2020786-062 \$6,625\*

\* US only

**Delivery Method:** Classroom

**Length of Course:** 3 days

### Course Location:

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

### Recommended IT Skills:

- GE Essentials of Healthcare IT or equivalent

For list of core IT skills, see chart on the Student Information page.

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## Dash® Series

The Dash Series class illustrates the practical skills needed to configure and troubleshoot the Dash 3000/ 4000/ 5000 monitors and peripherals. Participants will learn software navigation, as well as software configuration and service tools. The course presents a detailed explanation of the individual hardware and software components, planned maintenance procedures and troubleshooting techniques to improve service skills. Learn about integration and interconnectivity with Rac2A, Unity Network ID and other monitoring components to expand system capabilities. Hands-on labs include activities where participants interconnect Dash monitors on both a hardwire and wireless networks, disassemble/assemble Dash units and install software to repair units.



## Intended Audience

- Biomedical equipment technicians
- Biomedical and clinical engineers

## Customer Requirements

Customers are required to bring a computer laptop to class. The laptop will be used to view electronic documentation and operate software service tools, which are provided during class.

### Computer Laptop Requirements:

- Hardware: PC based (not Mac®), Wireless Network Card, DB 9 Serial port, CD ROM, USB port, AC Power Cord
- Operating System: Microsoft Windows® 2000 or XP Professional only
- Software: Microsoft Internet Explorer ver. 5.5 or greater, Microsoft Windows Media Player® 10 or greater, Adobe Reader® (latest version), latest Adobe Flash® plug-ins, HyperTerminal or other terminal emulation program.
- Local administrator access
- Ability to disable spyware and virus scan programs
- No other versions of Ghost previously installed

### Purchase Packages:

#### Tuition:

2030677-004 \$ 7,595

#### Tuition & lodging:

2030677-005 \$8,520

#### Tuition, lodging & air:

2030677-006 \$9,415\*

\* US only

**Delivery Method:** Classroom

**Length of Course:** 5 days

### Course Location:

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

### Recommended IT Skills:

- GE Essentials of Healthcare IT or equivalent

For list of core IT skills, see chart on the Student Information page.

# Enterprise Access with CH

The GE Enterprise Access CH course is designed to provide technical training on the Enterprise Access system architecture and reactive service procedures and tools. Training encompasses Mobile Services (Cell800, LMR800, SMR900 and PCS1900), ApexPro Telemetry CH and WLAN (802.11a/b/g).

## Intended Audience

- Biomedical equipment technicians
- Biomedical and clinical engineers

## Customer Requirements

Customers are required to bring a computer laptop to class. The laptop will be used to view electronic documentation and operate software service tools, which are provided during class.

### Computer Laptop Requirements:

- Hardware: PC based (not Mac®), Wireless Network Card, DB 9 Serial port, CD ROM, USB port, AC Power Cord
- Operating System: Microsoft Windows® 2000 or XP Professional only
- Software: Microsoft Internet Explorer ver. 5.5 or greater, Microsoft Windows Media Player® 10 or greater, Adobe Reader® (latest version), latest Adobe Flash® plug-ins, HyperTerminal or other terminal emulation program.
- Local administrator access
- Ability to disable spyware and virus scan programs
- No other versions of Ghost previously installed

### Purchase Packages:

#### Tuition:

2020786-189                      \$8,685

#### Tuition & lodging:

2020786-190                      \$9,240

#### Tuition, lodging & air:

2020786-191                      \$10,135\*

\* US only

**Delivery Method:** Classroom

**Length of Course:** 3 days

### Course Location:

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

### Required IT Skills:

- GE Essentials of Healthcare IT or equivalent
- GE Wireless in the Healthcare IT Environment

### Addition pre-requisite:

- Apex Pro CH

For list of core IT skills, see chart on the Student Information page.

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## Enterprise Access with FH

The GE Enterprise Access FH course is designed to provide technical training on the Enterprise Access system architecture and reactive service procedures and tools. Training encompasses Mobile Services (Cell800, LMR800, SMR900 and PCS1900), ApexPro Telemetry FH and WLAN (802.11a/b/g).

### Intended Audience

- Biomedical equipment technicians
- Biomedical and clinical engineers

### Customer Requirements

Customers are required to bring a computer laptop to class. The laptop will be used to view electronic documentation and operate software service tools, which are provided during class.

Computer Laptop Requirements:

- Hardware: PC based (not Mac®), Wireless Network Card, DB 9 Serial port, CD ROM, USB port, AC Power Cord
- Operating System: Microsoft Windows® 2000 or XP Professional only
- Software: Microsoft Internet Explorer ver. 5.5 or greater, Microsoft Windows Media Player® 10 or greater, Adobe Reader® (latest version), latest Adobe Flash® plug-ins, HyperTerminal or other terminal emulation program.
- Local administrator access
- Ability to disable spyware and virus scan programs
- No other versions of Ghost previously installed

#### Purchase Packages:

##### Tuition:

2020786-186 \$8,685

##### Tuition & lodging:

2020786-187 \$9,240

##### Tuition, lodging & air:

2020786-188 \$10,135\*

\* US only

**Delivery Method:** Classroom

**Length of Course:** 3 days

#### Course Location:

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

#### Required IT Skills:

- GE Essentials of Healthcare IT or equivalent
- GE Wireless in the Healthcare IT Environment

#### Addition pre-requisite:

- Apex Pro FH

For list of core IT skills, see chart on the Student Information page.

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## FM Monitor

The FM patient monitor training program offers learners the opportunity to gain an understanding of the monitor's operation, communication and hardware. The course provide descriptions of the functional units that make up the patient monitor as well as troubleshooting, repair and replacement of the functional units. Students will reinforce concepts and skills learned by completing structured labs on the equipment. This class is offered on-site at the Madison, WI. facility, or as an online teleconference session.

## Intended Audience

- Biomedical equipment technicians
- Biomedical and clinical engineers

### Purchase Packages:

#### Tuition:

M1072289                      \$2,275

#### Tuition & lodging:

M1118589                      \$2,645

#### Tuition, lodging & air:

M1118590                      \$3,540\*

\* US only

**Delivery Method:** Classroom or web

**Length of Course:** 2 days

### Course Location:

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

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## iCentral® and Mobile Viewer®

Participants will learn how to configure and maintain iCentral viewers and their Datex- Ohmeda® and Unity® peripherals. These include: printers, recorders, iCentral Clients, Datex-Ohmeda and GE bedside monitors. Participants will learn about the system's capabilities, components and will learn troubleshooting skills to help keep the system up and running. Participants will also connect and configure Mobile Viewer version 2 and construct a small Hospital enterprise to connect hospital PC and Palm PCs to the Mobile Viewer 2 system.

### Intended Audience

- Biomedical equipment technicians
- Biomedical and clinical engineers



#### Purchase Packages:

##### Tuition:

**M1115821** \$9,195

##### Tuition & lodging:

M1118599 \$10,120

##### Tuition, lodging & air:

M1118600 \$11,015\*

\* US only

**Delivery Method:** Classroom

**Length of Course:** 5 days

#### Course Location:

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

#### Required IT Skills:

- GE Essentials of Healthcare IT or equivalent

For list of core IT skills, see chart on the Student Information page.

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## iCentral Connectivity Gateway

The iCentral/Connectivity Gateway course is designed for biomedical and technical professionals who install, configure, and maintain Datex-Ohmeda® and Unity® iCentral viewers, and their networked peripherals. These will include printers, recorders, iCentral Clients, Datex-Ohmeda and GE bedside monitors. Students will learn how to install and configure all system components of Datex-Ohmeda and GE Unity systems, and Wireless LAN based Monitors. The course covers the system's capabilities, components, and troubleshooting skills to help keep the system up and running. Students will also connect and configure Connectivity Gateway, and construct a small hospital enterprise to connect hospital PC to send HL7® packets to a remote host.



## Intended Audience

- Biomedical equipment technicians
- Biomedical and clinical engineers

### Purchase Packages:

#### Tuition:

M1115822                      \$9,195

#### Tuition & lodging:

M1118601                      \$10,120

#### Tuition, lodging & air:

M1118602                      \$11,015\*

\* US only

**Delivery Method:** Classroom

**Length of Course:** 5 days

### Course Location:

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

### Required IT Skills:

- GE Essentials of Healthcare IT or equivalent

For list of core IT skills, see chart on the Student Information page.

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## Integrated Patient Monitoring

The Integrated Patient Monitoring course is designed for the technical professional responsible for configuring, troubleshooting and servicing the Dash® unit and Solar® 8000i/8000M monitors, CIC v5. central station and Patient Data Modules (PDM). You will explore the most current software updates for these monitors, including individual hardware and software components, their integration and interconnectivity with other system components.

**Note:** Participants looking for Tram® modules and peripherals, please register for the Solar Series course.

**Note:** Participants looking for CIC v4 or older CIC hardware, please register for the Clinical Information Center Series course.



## Intended Audience

- Biomedical equipment technicians
- Biomedical and clinical engineers

## Customer Requirements

Customers are required to bring a computer laptop to class. The laptop will be used to view electronic documentation and operate software service tools, which are provided during class.

Computer Laptop Requirements:

- Hardware: PC based (not Mac®), Wireless Network Card, DB 9 Serial port, CD ROM, USB port, AC Power Cord
- Operating System: Microsoft Windows® 2000 or XP Professional only
- Software: Microsoft Internet Explorer ver. 5.5 or greater, Microsoft Windows Media Player® 10 or greater, Adobe Reader® (latest version), latest Adobe Flash® plug-ins, HyperTerminal or other terminal emulation program.
- Local administrator access
- Ability to disable spyware and virus scan programs
- No other versions of Ghost previously installed

### Purchase Packages:

#### Tuition:

2030677-007 \$7,965

#### Tuition & lodging:

2030677-008 \$8,890

#### Tuition, lodging & air:

2030677-009 \$9,785\*

\* US only

**Delivery Method:** Classroom

**Length of Course:** 5 days

### Course Location:

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

### Recommended IT Skills:

- GE Essentials of Healthcare IT or equivalent

For list of core IT skills, see chart on the Student Information page.

## S/5 Anesthesia & Compact Monitors

Participants in the Anesthesia and Compact Monitors class will receive a brief clinical overview of monitored parameters. Lectures will detail the operation, software configuration, hardware and communication of the monitors. Extensive hands-on labs are designed to reinforce the concepts learned during lecture.

### Intended Audience

- Biomedical equipment technicians
- Biomedical and clinical engineers



#### Purchase Packages:

##### Tuition:

7000-0001-416 \$5,755

##### Tuition & lodging:

M1118605 \$6,495

##### Tuition, lodging & air:

M1118606 \$7,390\*

\* US only

**Delivery Method:** Classroom

**Length of Course:** 4 days

#### Course Location:

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

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## S/5 MRI Monitor

The S/5 MRI patient monitor training program offers learners the opportunity to gain an understanding of the monitor's operation, communication and hardware. The course will provide descriptions of the functional units that make up the MRI as well as troubleshooting, repair and replacement of the functional units. Students will reinforce concepts and skills learned by completing structured labs on the equipment.

### Intended Audience

- Biomedical equipment technicians
- Biomedical and clinical engineers

### Customer Requirements

Students should have a working knowledge of either the AM or the CM monitor.



#### Purchase Packages:

##### Tuition:

M1149222 \$5,695

##### Tuition & lodging:

M1149225 \$6,250

##### Tuition, lodging & air:

M1149226 \$7,145\*

\* US only

**Delivery Method:** Classroom

**Length of Course:** 2 days

#### Course Location:

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

## Solar® 9500

The Solar 9500 Class focuses on the operation and troubleshooting of the Solar 9500 Monitoring System and peripherals, illustrating the practical skills needed to configure and troubleshoot the system. Participants are involved in software navigation and the comprehension of software configuration and service tools. The course provides a detailed explanation of the individual hardware and other system components.

## Intended Audience

- Biomedical equipment technicians
- Biomedical and clinical engineers

## Customer Requirements

Customers are required to bring a computer laptop to class. The laptop will be used to view electronic documentation and operate software service tools, which are provided during class.

### Computer Laptop Requirements:

- Hardware: PC based (not Mac®), Wireless Network Card, DB 9 Serial port, CD ROM, USB port, AC Power Cord
- Operating System: Microsoft Windows® 2000 or XP Professional only
- Software: Microsoft Internet Explorer ver. 5.5 or greater, Microsoft Windows Media Player® 10 or greater, Adobe Reader® (latest version), latest Adobe Flash® plug-ins, HyperTerminal or other terminal emulation program.
- Local administrator access
- Ability to disable spyware and virus scan programs
- No other versions of Ghost previously installed



### Purchase Packages:

#### Tuition:

BT1049-100 \$5,285

#### Tuition & lodging:

BT1049-101 \$5,840

#### Tuition, lodging & air:

BT1049-102 \$6,735\*

\* US only

**Delivery Method:** Classroom

**Length of Course:** 3 days

### Course Location:

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

### Recommended IT Skills:

- GE Essentials of Healthcare IT or equivalent

For list of core IT skills, see chart on the Student Information page.

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## Solar Series

This technical service class for the Solar 8000i/8000M products and peripherals, illustrates the practical skills needed to configure and troubleshoot the complete system. Participants are involved in basic clinical software navigation and the comprehension of software configuration and service tools. The course provides a detailed explanation of the individual hardware and software components, planned maintenance procedures and troubleshooting techniques to improve service skills. Participants learn about integration and interconnectivity with Tram® & Rac®, and Patient Data Modules (PDM), Transport Pro v2, Unity Network® ID and other Monitoring Solutions components to expand system capabilities. Participants will learn hands-on skills in labs designed to reinforce principles reviewed in class.

**Note:** The Solar Series class does not include CIC/CIC v.5 instruction. For more information, please see course descriptions for CIC and CIC v.5.



## Intended Audience

- Biomedical equipment technicians
- Biomedical and clinical engineers

## Customer Requirements

Customers are required to bring a computer laptop to class. The laptop will be used to view electronic documentation and operate software service tools, which are provided during class.

Computer Laptop Requirements:

- Hardware: PC based (not Mac®), Wireless Network Card, DB 9 Serial port, CD ROM, USB port, AC Power Cord
- Operating System: Microsoft Windows® 2000 or XP Professional only
- Software: Microsoft Internet Explorer ver. 5.5 or greater, Microsoft Windows Media Player® 10 or greater, Adobe Reader® (latest version), latest Adobe Flash® plug-ins, HyperTerminal or other terminal emulation program.
- Local administrator access
- Ability to disable spyware and virus scan programs
- No other versions of Ghost previously installed

### Purchase Packages:

#### Tuition:

2030677-011 \$7,595

#### Tuition & lodging:

2030677-012 \$8,520

#### Tuition, lodging & air:

2030677-013 \$9,415\*

\* US only

**Delivery Method:** Classroom

**Length of Course:** 5 days

### Course Location:

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

### Recommended IT Skills:

- GE Essentials of Healthcare IT or equivalent

For list of core IT skills, see chart on the Student Information page.

## Aware Gateway V1.3

Aware Gateway provides a connection between the Unity® Network MC Network and the hospital enterprise network. It forms a data path so data residing on either network can be shared across the two networks. Since medical devices can exchange data with the Hospital Information System, Aware Gateway provides greater access to patient data, reduces the opportunity for errors, and improves hospital productivity.

This self-paced CD is designed to familiarize you with the key features and installation issues involved with the Aware Gateway. In addition, this course covers major service and troubleshooting topics and procedures.



## Intended Audience

- Biomedical equipment technicians
- Biomedical and clinical engineers

## Customer Requirements

A computer, or computer access with CD ROM drive required to use this CD course.

Computer Requirements:

- Hardware: PC based (not Mac®), Wireless Network Card, DB 9 Serial port, CD ROM drive
- Operating System: Microsoft Windows® 2000 or XP Professional only
- Software: Microsoft Internet Explorer ver. 5.5 or greater, Microsoft Windows Media Player® 10 or greater, Adobe Reader® (latest version), latest Adobe Flash® plug-ins, HyperTerminal or other terminal emulation program.

### Tuition:

2020786-021

\$600

**Delivery Method:** CD

**Length of Course:**

Dependant on user

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## Corometrics® 120 Series Maternal/ Fetal Monitors

The Corometrics 120 monitor interactive training CD provides a step-by-step review of the disassembly and assembly process. From the introduction of the parts down to the removal of the front bezel power switch, this interactive CD gives a comprehensive approach to servicing the 120 series.

### Intended Audience

- Biomedical equipment technicians
- Biomedical and clinical engineers

### Customer Requirements

A computer, or computer access with CD ROM drive required to use this CD course.

Computer Requirements:

- Hardware: PC based (not Mac®), Wireless Network Card, DB 9 Serial port, CD ROM drive
- Operating System: Microsoft Windows® 2000 or XP Professional only
- Software: Microsoft Internet Explorer ver. 5.5 or greater, Microsoft Windows Media Player® 10 or greater, Adobe Reader® (latest version), latest Adobe Flash® plug-ins, HyperTerminal or other terminal emulation program.



#### Tuition:

2022006-001

\$500

#### Delivery Method: CD

#### Length of Course: 1-2 hours

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## Corometrics® 250 Series Maternal/ Fetal Monitors

The Corometrics 250 monitor interactive service training program provides participants a review on how to repair and maintain this product. The program starts with an overview of the differences between the 120 series and the 250 series. It then points out the major features of the monitor and provides a high level theory of operation. The majority of program demonstrates how to access and remove the field replaceable units (FRUs). Also included in the program are the maintenance suggestions and answers to frequently asked troubleshooting questions. This course can be completed with an interactive CD or as an online course.



### Intended Audience

- Biomedical equipment technicians
- Biomedical and clinical engineers

### Customer Requirements

A computer, or computer access with CD ROM drive required to use this CD course.

Computer Requirements:

- Hardware: PC based (not Mac®), Wireless Network Card, DB 9 Serial port, CD ROM drive
- Operating System: Microsoft Windows® 2000 or XP Professional only
- Software: Microsoft Internet Explorer ver. 5.5 or greater, Microsoft Windows Media Player® 10 or greater, Adobe Reader® (latest version), latest Adobe Flash® plug-ins, HyperTerminal or other terminal emulation program.

#### Tuition:

2020786-026

\$350

**Delivery Method:** Online

**Length of Course:** 1-2 hours

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## Corometrics 250cx Series for Technical and Clinical Professionals - CD

This online course is designed to familiarize clinicians with the operation of the Corometrics® 250cx series monitors. Topics include a basic overview of the recording modes, setup screens, connecting the monitor to the patient and initiating fetal monitoring, as well as maintenance recommendations.

### Intended Audience

- Biomedical equipment technicians
- Biomedical and clinical engineers

### Customer Requirements

- Must be able to connect to the internet
- Phone access (preferably speaker phone)

**Tuition:**

2020786-064

\$25

**Delivery Method:** Online**Length of Course:** 1 hour

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## Capnomac Ultima® - DVD

Through the use of a video and workbook, students review the theory of operation of the various subsystems in the Capnomac Ultima monitor. Instruction on the use of the service screen for troubleshooting purposes is provided, as well as an outline for the planned maintenance procedures. It is recommended that students have the equipment available to work on while going through the program.

## Intended Audience

- Biomedical equipment technicians
- Biomedical and clinical engineers

## Customer Requirements

A computer, or computer access with CD ROM drive required to use this CD course.

Computer Requirements:

- Hardware: PC based (not Mac®), Wireless Network Card, DB 9 Serial port, DVD player
- Operating System: Microsoft Windows® 2000 or XP Professional only
- Software: Microsoft Internet Explorer ver. 5.5 or greater, Microsoft Windows Media Player® 10 or greater, Adobe Reader® (latest version), latest Adobe Flash® plug-ins, HyperTerminal or other terminal emulation program.



### Tuition:

7000-0001-507      \$935

**Delivery Method:** DVD

**Length of Course:** 3 hours

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## Carescape V100 Technical Course - Web

The CARESCAPE™ V100 monitor technical training course is designed to teach biomedical and technical personnel how to disassemble, configure, and service this monitor. This online, self-paced course takes the student through the disassembly of components in the CARESCAPE V100 monitor, as well as access and navigation of the Configuration Mode. Students also enter the Service Mode and perform the required test procedures.

### Intended Audience

- Biomedical equipment technicians
- Biomedical and clinical engineers

### Customer Requirements

- Must be able to connect to the internet



#### Tuition:

2020786-166

\$99

**Delivery Method:** Web

**Length of Course:** 1 hour

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## CRITIKON

The CRITIKON self-paced course is designed for biomedical engineers and biomedical technicians who work with the Dinamap Pro Series Monitors (100-400). The course allows you to view the materials in English, Spanish, French or German. Using videos and narration to explain the service process, the course covers service mode access, pre-service test procedures, NIBP check and calibration, and disassemble and assemble instructions.

### Intended Audience

- Biomedical equipment technicians
- Biomedical and clinical engineers

### Customer Requirements

A computer, or computer access with CD ROM drive required to use this CD course.

Computer Requirements:

- Hardware: PC based (not Mac®), Wireless Network Card, DB 9 Serial port, CD ROM drive
- Operating System: Microsoft Windows® 2000 or XP Professional only
- Software: Microsoft Internet Explorer ver. 5.5 or greater, Microsoft Windows Media Player® 10 or greater, Adobe Reader® (latest version), latest Adobe Flash® plug-ins, HyperTerminal or other terminal emulation program.



#### Tuition:

CD-1146

\$100

#### Delivery Method: CD

#### Length of Course:

Dependant on user

## Dash 2500

The Dash 2500 technical training program is designed to teach service personnel how to service and install the Dash 2500 monitor. It also covers how to disassemble/reassemble the monitor, perform a functional checkout and basic troubleshooting tips.

## Intended Audience

- Biomedical equipment technicians
- Biomedical and clinical engineers

**Tuition:**

2020786-078                      \$350

**Delivery Method:** Web

**Length of Course:** 4 hours

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## iPanel v2 Clinical & Admin Training CD

The iPanel v2 software course combines clinical and technical education on one convenient CD. The clinical module guides clinicians on how to view clinical applications on the hospital network obtained from patient monitoring systems and the patient's electronic medical record.

The technical module instructs technical professionals on installing and configuring the iPanel software, clinical applications, monitors and computer.

### Intended Audience

- Biomedical equipment technicians
- Biomedical and clinical engineers

### Customer Requirements

A computer, or computer access with CD ROM drive required to use this CD course.

Computer Requirements:

- Hardware: PC based (not Mac®), Wireless Network Card, DB 9 Serial port, CD ROM drive
- Operating System: Microsoft Windows® 2000 or XP Professional only
- Software: Microsoft Internet Explorer ver. 5.5 or greater, Microsoft Windows Media Player® 10 or greater, Adobe Reader® (latest version), latest Adobe Flash® plug-ins, HyperTerminal or other terminal emulation program.



### Tuition:

2020786-019

\$200

### Delivery Method: CD

Length of Course: 1 hour

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# 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

### Purchase Packages:

**Tuition:**

2030677-001                      \$3,850

**Tuition & lodging:**

2030677-002                      \$4,775

**Tuition, lodging & air:**

2030677-003                      \$5,670\*

\* US only

**Delivery Method:** Classroom

**Length of Course:** 5 days

**Course Location:**

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

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## Securing the Healthcare IT Environment<sup>SM</sup>

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

### Purchase Packages:

#### Tuition:

2020786-053 \$5,000

#### Tuition & lodging:

2020786-054 \$5,925

#### Tuition, lodging & air:

2020786-055 \$6,820\*

\* US only

**Delivery Method:** Classroom

**Length of Course:** 5 days

### Course Location:

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

### Required IT Skills:

- GE Essentials of Healthcare IT or equivalent

For list of core IT skills, see chart on the Student Information page.

# Wireless in the Healthcare IT Environment<sup>SM</sup>

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

### Purchase Packages:

#### Tuition:

2020786-050 \$5,000

#### Tuition & lodging:

2020786-051 \$5,925

#### Tuition, lodging & air:

2020786-052 \$6,820\*

\* US only

**Delivery Method:** Classroom

**Length of Course:** 5 days

### Course Location:

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

### Required IT Skills:

- GE Essentials of Healthcare IT or equivalent

For list of core IT skills, see chart on the Student Information page.

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## 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

### Purchase Packages:

#### Tuition:

2020786-167                      \$2,350

#### Tuition & lodging:

2020786-168                      \$2,905

#### Tuition, lodging & air:

2020786-169                      \$3,800\*

\* US only

**Delivery Method:** Classroom

**Length of Course:** 3 days

### Course Location:

Please visit [www.gehealthcare.com/training](http://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



### Purchase Packages:

#### Tuition:

2020786-126                    \$3,500

#### Tuition & lodging:

2020786-127                    \$4,055

#### Tuition, lodging & air:

2020786-128                    \$4,950\*

\* US only

**Delivery Method:** Classroom

**Length of Course:** 3 days

#### Course Location:

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

#### Required IT Skills:

- GE Essentials of Healthcare IT or equivalent

For list of core IT skills, see chart on the Student Information page.

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