

GE Healthcare

Education Services

Anesthesia Delivery, Respiratory and Sleep Systems

2011 Technical Education



imagination at work

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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.

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, Computed Tomography, Magnetic Resonance, Mammography, Nuclear Medicine/PET, Ultrasound and X-Ray, 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.

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 and choose "College Credit for Technical Training" for more information on these programs.

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 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 Anesthesia Delivery, Respiratory and Sleep 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
- 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 ITSM
- Participants may complete a test to demonstrate IT competencies required for specific courses.

7100 Ventilator

The 7100 Ventilator class is designed for participants who have already completed the Aestiva® 7900 or the Aespire® 7900 class and only need to learn the 7100 ventilator portion of the machine. Participants will learn about the system's capabilities, component replacement, and how to perform the necessary planned maintenance procedures

Intended Audience

- Biomedical equipment technicians
- Biomedical and clinical engineers

Purchase Packages:

Tuition:

7000-0001-501 \$4,555

Tuition & lodging:

M1117574 \$4,925

Tuition, lodging & air:

M1117575 \$5,820*

* US only

Note: This course is offered by request only

Delivery Method: Classroom

Pre-Requisites:

- Aestiva 7900 or Aespire/7900

Length of Course: 2 days

Course Location:

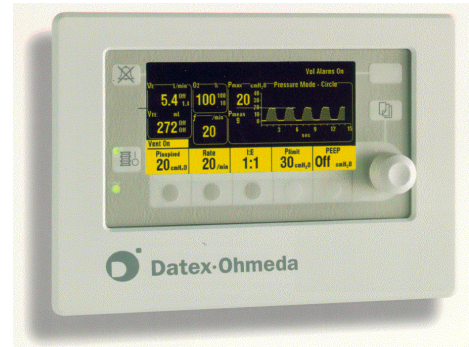
Please visit www.gehealthcare.com/training for the most current information on dates and locations.

7900 Ventilator

The 7900 ventilator technical class offers a detailed understanding of the pneumatics and electrical systems that make up the 7900 ventilator as found on the anesthesia machine. Hands-on labs are designed to reinforce skills needed to troubleshoot and repair components. Participants will also be taught how to perform planned maintenance.

Intended Audience

- Biomedical equipment technicians
- Biomedical and clinical engineers



Purchase Packages:

Tuition:

7000-0001-389 \$4,555

Tuition & lodging:

M1117581 \$4,925

Tuition, lodging & air:

M1117582 \$5,820*

* US only

Note: This course is offered by request only

Delivery Method: Classroom

Pre-Requisites:

- Aestiva/7100 or Aespire/7100

Length of Course: 2 days

Course Location:

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

Aespire® 7100

The Aespire 7100 Technical Class provides participants with an understanding of operation and configuration of the Aespire anesthesia machine and 7100 Ventilator. Hands-on labs are designed to reinforce skills required to remove and replace components, complete planned maintenance inspections, and perform calibrations. It is recommended that those with little or no exposure to the field of anesthesia take the Aespire Essentials course prior to attending this course.



Intended Audience

- Biomedical equipment technicians
- Biomedical and clinical engineers

Purchase Packages:

Tuition:

M1050985 \$9,115

Tuition & lodging:

M1117751 \$9,855

Tuition, lodging & air:

M1118454 \$10,750*

* US only

Delivery Method: Classroom

Length of Course: 4 days

Course Location:

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

Aespire® 7900

The Aespire 7900 class provides participants with an understanding of operation and configuration of the Aespire anesthesia machine and 7900 Ventilator. Hands-on labs are designed to reinforce skills required to remove and replace components, complete planned maintenance inspections, and perform calibrations. It is recommended that those with little or no exposure to the field of anesthesia take the Aespire Essentials course.

Intended Audience

- Biomedical equipment technicians
- Biomedical and clinical engineers



Purchase Packages:

Tuition:

M1050986 \$10,625

Tuition & lodging:

M1118456 \$11,365

Tuition, lodging & air:

M1118457 \$12,260*

* US only

Delivery Method: Classroom

Length of Course: 4 days

Course Location:

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

Aespire® View

Students completing the Aespire View class will have a basic comprehension of the anesthesia system, breathing system, and ventilator. This will include pneumatic as well as electrical components. Hands-on labs will guide the students through planned maintenance, loading software, leak testing and troubleshooting, as well as disassembly, assembly, and adjustment of major components. It is recommended that those with little or no exposure to the field of anesthesia take the Aespire Essentials course.

Intended Audience

- Biomedical equipment technicians
- Biomedical and clinical engineers

Purchase Packages:

Tuition:

M1175159 \$12,752

Tuition & lodging:

M1175160 \$13,677

Tuition, lodging & air:

M1175161 \$14,572*

* US only

Delivery Method: Classroom

Length of Course: 4 days

Course Location:

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

Aespire® Essentials

The two-day Aespire Essentials course covers basic theory, pneumatic design and operation of the Aespire anesthesia machine and ventilator. Structured hands-on labs are designed to reinforce skills learned to find and troubleshoot leaks in the breathing system, perform user-scheduled maintenance and complete the preoperative checkout procedures. This class is intended for end users responsible for operating and/or supporting the Aespire anesthesia machine and ventilator.

Note: This course does not qualify individuals to perform in-depth repairs or service planned maintenance. Technical Reference Manuals are not included with this course.

Intended Audience

- Anesthesia Technicians
- Biomedical equipment technicians
- Biomedical and clinical engineers
- CRNAs
- Physicians

Purchase Packages:

Tuition:

M1179673 \$3,135

Tuition & lodging:

M1195624 \$3,505

Tuition, lodging & air:

M1195626 \$4,400*

* US only

Delivery Method: Classroom

Length of Course: 2 days

Course Location:

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

Aestiva® 7100

Completion of the Aestiva 7100 class provides an understanding of pneumatic and electrical components of the Aestiva anesthesia machine, breathing system, and 7100 Ventilator. Course skills are reinforced during labs, where participants will perform planned maintenance, disassemble, assemble, and adjust all components, and perform leak tests as a troubleshooting tool. Participants looking for a course on the 7900 Ventilator, please register for Aestiva 7900 course.



Intended Audience

- Biomedical equipment technicians
- Biomedical and clinical engineers

Purchase Packages:

Tuition:

7000-0001-497 \$11,385

Tuition & lodging:

M1118458 \$12,310

Tuition, lodging & air:

M1118459 \$13,205*

* US only

Delivery Method: Classroom

Pre-Requisites:

- Successful completion of a pretest based on the Explore! Aestiva or prior anesthesia machine training through GE healthcare.

Length of Course: 5 days

Course Location:

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

Aestiva®/5 7900

Participant completing the Aestiva 7900 class will have a basic comprehension of the Aestiva anesthesia system, breathing system, and 7900 ventilator. This will include pneumatic, as well as, electrical components. Hands-on labs will guide the participants through planned maintenance, leak testing and troubleshooting, as well as disassembly, assembly, and adjustment of all components. Participants interested in a course on the 7100 Ventilator please register for Aestiva 7100 course.

Intended Audience

- Biomedical equipment technicians
- Biomedical and clinical engineers

Purchase Packages:

Tuition:

7000-0001-408 \$12,145

Tuition & lodging:

M1118465 \$13,070

Tuition, lodging & air:

M1118466 \$13,965*

* US only

Delivery Method: Classroom

Pre-Requisites:

- Successful completion of a pretest based on the Explore! Aestiva or prior anesthesia machine training through GE healthcare.

Length of Course: 5 days

Course Location:

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

Aestiva® Essentials

The two-day Aestiva Essentials course covers basic theory, pneumatic design and operation of the Aestiva anesthesia machine and ventilator. Structured hands-on labs are designed to reinforce skills learned to find and troubleshoot leaks in the breathing system, perform user-scheduled maintenance and complete the preoperative checkout procedures. This class is intended for end users responsible for operating and/or supporting the Aespire anesthesia machine and ventilator.

Note: This course does not qualify individuals to perform in-depth repairs or service planned maintenance. Technical Reference Manuals are not included with this course.

Intended Audience

- Anesthesia Technicians
- Biomedical equipment technicians
- Biomedical and clinical engineers
- CRNAs
- Physicians

Purchase Packages:

Tuition:

M1179642 \$3,135

Tuition & lodging:

M1195627 \$3,505

Tuition, lodging & air:

M1195628 \$4,400*

* US only

Delivery Method: Classroom

Length of Course: 2 days

Course Location:

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

Anesthesia Delivery Unit (ADU®)

This class provides comprehensive instruction in operation of the machine and the different levels of configuration. Participants will learn the function of each of the major assemblies that make up the ADU by removing them and identifying the components within each assembly. Participants also learn how the assemblies interface with each other. Hands-on labs are designed to reinforce the system checkout procedure and demonstrate troubleshooting skills learned during class presentations. Participants perform the planned maintenance by replacing required parts and performing the functional check. Required calibration are also demonstrated and performed as needed. This class does not cover the S/5 AM monitor. Participants who need monitor training should register for one of the monitor classes.



Intended Audience

- Biomedical equipment technicians
- Biomedical and clinical engineers

Purchase Packages:

Tuition:

7000-0001-422 \$13,665

Tuition & lodging:

M1117593 \$14,590

Tuition, lodging & air:

M1117594 \$15,485*

* US only

Delivery Method: Classroom

Length of Course: 5 days

Course Location:

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

Aisys®

Participants completing the Aisys class will have a comprehension of the Aisys anesthesia system, breathing system, and ventilator. This will include pneumatic, as well as, electrical components. Hands-on labs will guide the participants through planned maintenance, leak testing and troubleshooting, as well as disassembly, assembly, and adjustment of all components. This course also includes training for the laptop based service application program. Students will use classroom computers for the exercises. It is recommended that those with little or no exposure to the field of anesthesia take the Aisys Essentials course.

Intended Audience

- Biomedical equipment technicians
- Biomedical and clinical engineers

Customer Requirements

- Prior experience working on anesthesia machines is recommended.



Purchase Packages:

Tuition:

M1050982 \$13,665

Tuition & lodging:

M1118481 \$14,590

Tuition, lodging & air:

M1118482 \$15,485*

* US only

Delivery Method: Classroom

Pre-Requisites:

-Successful completion of a pretest based on the Explore! Aisys series.

Length of Course: 5 days

Course Location:

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

Aisys® Essentials

The two-day Aisys Essentials course covers basic theory, pneumatic design and operation of the Aisys anesthesia machine and ventilator. Structured hands-on labs are designed to reinforce skills learned to find and troubleshoot leaks in the breathing system, perform user-scheduled maintenance and complete the preoperative checkout procedures. This class is intended for end users responsible for operating and/or supporting the Aisys anesthesia machine and ventilator.

Note: This course does not qualify individuals to perform in-depth repairs or service planned maintenance. Technical Reference Manuals are not included with this course.

Intended Audience

- Anesthesia Technicians
- Biomedical equipment technicians
- Biomedical and clinical engineers
- CRNAs
- Physicians



Purchase Packages:

Tuition:

M1179276 \$3,135

Tuition & lodging:

M1195629 \$3,505

Tuition, lodging & air:

M1195630 \$4,400*

* US only

Delivery Method: Classroom

Length of Course: 2 days

Course Location:

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

Avance®

Participants completing the Avance class will have a comprehension of the Avance anesthesia system, breathing system, and ventilator. This will include pneumatic, as well as, electrical components. Hands-on labs will guide the participants through planned maintenance, leak testing and troubleshooting; as well as, disassembly, assembly, and adjustment of all components. It is recommended that those with little or no exposure to the field of anesthesia take the Avance Essentials course.

Intended Audience

- Biomedical equipment technicians
- Biomedical and clinical engineers

Customer Requirements

- Prior experience working on anesthesia machines is recommended.

Purchase Packages:

Tuition:

M1050984 \$11,385

Tuition & lodging:

M1118487 \$12,310

Tuition, lodging & air:

M1118488 \$13,205*

* US only

Delivery Method: Classroom

Length of Course: 5 days

Course Location:

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

Avance® Essentials

The two-day Avance Essentials course covers basic theory, pneumatic design and operation of the Avance anesthesia machine and ventilator. Structured hands-on labs are designed to reinforce skills learned to find and troubleshoot leaks in the breathing system, perform user-scheduled maintenance and complete the preoperative checkout procedures. This class is intended for end users responsible for operating and/or supporting the Avance anesthesia machine and ventilator.

Note: This course does not qualify individuals to perform in-depth repairs or service planned maintenance. Technical Reference Manuals are not included with this course.

Intended Audience

- Anesthesia Technicians
- Biomedical equipment technicians
- Biomedical and clinical engineers
- CRNAs
- Physicians

Purchase Packages:

Tuition:

M1195621 \$3,135

Tuition & lodging:

M1195622 \$3,505

Tuition, lodging & air:

M1195623 \$4,400*

* US only

Delivery Method: Classroom

Length of Course: 2 days

Course Location:

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

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 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.

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 Web instant message service interface, configuration, licensing the options and features, calibration procedures for supported hemodynamic parameter modules, corrective maintenance, planned maintenance, maintenance procedures, software transfer procedures, and service special tools.

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:

2020786-193 \$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 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.

Engstrom Ventilator®

The EV Carestation class covers currently supported models of EV Carestation ventilator. This course is designed to provide the participants with the knowledge necessary to identify and correct possible operator errors, identify, disassemble and assemble the EV Carestation, identify major circuit boards, and understand the functionality of all pneumatic components. Skills are reinforced through structured labs that guide students through operation calibration, adjustment procedures, and planned maintenance of the equipment.

Intended Audience

- Biomedical equipment technicians
- Biomedical and clinical engineers

Purchase Packages:

Tuition:

M1050988 \$5,695

Tuition & lodging:

M1118583 \$6,435

Tuition, lodging & air:

M1118584 \$7,330*

* US only

Delivery Method: Classroom

Length of Course: 4 days

Course Location:

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

S/5 Anesthesia & Compact Monitors

Participants in the Anesthesia and Compact Monitors Distance Learning 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. Training for the AS/3 Anesthesia Monitor is also covered in this class.

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 for the most current information on dates and locations.

VersaMed iVent201® Ventilator

The iVent201 technical class covers currently supported models of iVent201 ventilators. This course is designed to provide the biomedical technician with the knowledge necessary to correct possible operator errors. Students will disassemble and assemble the iVent201, identify major circuit boards, and understand the functionality of all pneumatic components. In addition, students will learn to install and check out the ventilator. The use of the system diagnostics for troubleshooting problems will also be covered. Skills are reinforced through structured labs that guide students through operation, calibration, adjustment procedures, and preventive maintenance of the equipment.



Intended Audience

- Biomedical equipment technicians
- Biomedical and clinical engineers

Purchase Packages:

Tuition:

M1165718 \$3,800

Tuition & lodging:

M1165720 \$4,170

Tuition, lodging & air:

M1165721 \$5,065*

* US only

Delivery Method: Classroom

Length of Course: 2 days

Course Location:

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

Compact Airway Module PM for Aisys®/Avance®

This course covers the theory of operation, and PM Parts replacement and inspection for modules that are used in the Aisys or Avance anesthesia system without an S/5 AM or Compact monitor. This class requires successful completion of either the Aisys or Avance Technical Training course.

Intended Audience

- Biomedical equipment technicians
- Biomedical and clinical engineers



Tuition:

M1196777

\$1,645

Delivery Method: CD

Length of Course: 4 hours

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

Explore! The Anesthesia Systems®

The Explore! The Anesthesia System is a series of books and CDs dedicated to the Aestiva and Aisys anesthesia machines. Each book/ CD or online course covers subjects such as: how gas gets into an anesthesia machine; what components are inside the anesthesia machine and how gas flows through them; how vaporizers work; the basic principles of ventilators; the components and functionality of the breathing system; and the importance of scavenging. These topics are covered in non-technical language. The CD and online course includes interactive animations and simulations. The Explore Aisys can be accessed as a web-based program.

Intended Audience

- Anesthesia professionals
- Biomedical equipment technicians
- Biomedical and clinical engineers
- Clinicians
- CRNAs
- Physicians



Purchase Packages:

Explore Aestiva Book:
EXPL-AES-5-BK \$200

Explore Aestiva CD:
EXPL-AES-5-CD \$180

Explore Aestiva Book with CD:
EXPL-AES-5-CD-BK \$250

Explore Aisys Book with CD:
M1075802 \$275

Explore Aisys Web-based program:
M1164381 \$225

Essentials of Healthcare ITSM

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:

M1056773 \$3,850

Tuition & lodging:

M1118581 \$4,775

Tuition, lodging & air:

M1118582 \$5,670*

* US only

Delivery Method: Classroom

Length of Course: 5 days

Course Location:

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

Securing the Healthcare IT EnvironmentSM

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:

M1126775 \$5,000

Tuition & lodging:

M1126785 \$5,925

Tuition, lodging & air:

M1126786 \$6,820*

* US only

Delivery Method: Classroom

Length of Course: 5 days

Course Location:

Please visit 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 EnvironmentSM

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:

M1126782 \$5,000

Tuition & lodging:

M1126793 \$5,925

Tuition, lodging & air:

M1126795 \$6,820*

* US only

Delivery Method: Classroom

Length of Course: 5 days

Course Location:

Please visit 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.

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:

M1183243 \$2,350

Tuition & lodging:

M1183244 \$2,905*

Tuition, lodging & air:

M1183246 \$3,800*

* US only

Delivery Method: Classroom

Length of Course: 3 days

Course Location:

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

Purchase Packages:

Tuition:

M1152065 \$3,500

Tuition & lodging:

M1152066 \$4,055

Tuition, lodging & air:

M1152067 \$4,950*

* US only

Delivery Method: Classroom

Length of Course: 3 days

Course Location:

Please visit 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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