

GE Healthcare

# Essentials of Healthcare IT

Exploring the fundamentals of connectivity



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Connectivity has become the backbone of the healthcare industry. As medical devices integrate with medical networks, information technologies and clinical engineering responsibilities continue to converge. Essentials of Healthcare IT examines networks and connectivity from both perspectives, providing the critical elements you need to excel in this new and exciting arena.

This fundamental course from GE Healthcare addresses the IT needs of technical professionals who install and support medical devices and the healthcare network.

Essentials of Healthcare IT focuses on developing the practical skills to learn networks from the inside out. Extensive labs provide hands-on building and troubleshooting flat, switched, routed and wireless networks. This course is designed to meet the unique and specific needs of healthcare IT. You will work on actual equipment, not simulations. Essentials of Healthcare IT is vendor-neutral and approaches IT from the healthcare professionals' perspective. Previous IT training is not required.

## Benefits

- Focus on the information you need to support healthcare networks
- Learn the language of IT
- Increase your uptime through first-line connectivity troubleshooting
- Reduce service calls to OEM, saving time and money
- Vendor-neutral program lets you work on any networked devices

- Gain deeper, hands-on knowledge of information technology
- Continued support through online resources for networking
- Comprehensive manual provides valuable reference

As with any course, objectives are key. Responding to healthcare and IT industry trends, our instructors combine their expertise in clinical engineering and information technologies, identifying what you need from Essentials of Healthcare IT.

## Course objectives

- Demonstrate basic network competencies in building, troubleshooting and navigating through multiple networks:
  - Flat
  - Routed
  - Switched
  - Wireless
- Examine computer hardware and demonstrate mastery of component identification and installation through assembly of a PC
- Demonstrate mastery of computer boot-up and POST process through examining BIOS settings and identifying common boot-up errors
- Validate competency in adding hardware, drivers and peripherals to systems through installation of printers and NICs
- Demonstrate mastery of computer-management and troubleshooting tools through the installation of printers and NICs
- Develop proficiency in operating-system navigation through use of GUI and the command line



### Who should attend

- 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

### Registration information

Essentials of Healthcare IT is a five-day class held at GE sites in Madison, WI and Milwaukee, WI, and in convenient locations throughout the continental United States.

Class includes session materials, class supplies and certificate of completion.

Class schedules are updated frequently. For the latest class schedule or to register online, please visit our Web site at [www.gehealthcare.com/training](http://www.gehealthcare.com/training).

### Course Outline

#### Day 1

- Computer Hardware Basics
- Inspection of Connectors and Jacks
- Boot Up/POST/Boot Order
- Exploring My Computer
- Physical Disks
- Adding Plug-and-Play Peripherals
- Adding Non-PNP Peripherals
- Exploring Device Manager
- Exploring Computer Management

#### Day 2

- Benefits of Medical Networks
- Network Topologies
- Practical IP Addressing
- Building a Flat Network
- Adding Network Devices
- Troubleshooting Flat Networks

#### Day 3

- Administering Server/Client Networks
- Accessing Network Sites Remotely
- Mapping Network Drives
- Configuring Web Browsers
- Building a Switched Network
- Troubleshooting Switched Networks

#### Day 4

- Local and Remote Administration of Routers
- Building a Routed Network
- Troubleshooting a Routed Network

#### Day 5

- Configuration of Access Points
- Building a Wireless Network
- Troubleshooting a Wireless Network

## Healthcare Re-imagined

GE is dedicated to helping you transform healthcare delivery by driving critical breakthroughs in biology and technology. Our expertise in medical imaging and information technologies, medical diagnostics, patient monitoring systems, drug discovery, and biopharmaceutical manufacturing technologies is enabling healthcare professionals around the world to discover new ways to predict, diagnose and treat disease earlier. We call this model of care “Early Health.” The goal: to help clinicians detect disease earlier, access more information and intervene earlier with more targeted treatments, so they can help their patients live their lives to the fullest. Re-think, Re-discover, Re-invent, Re-imagine.

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imagination at work