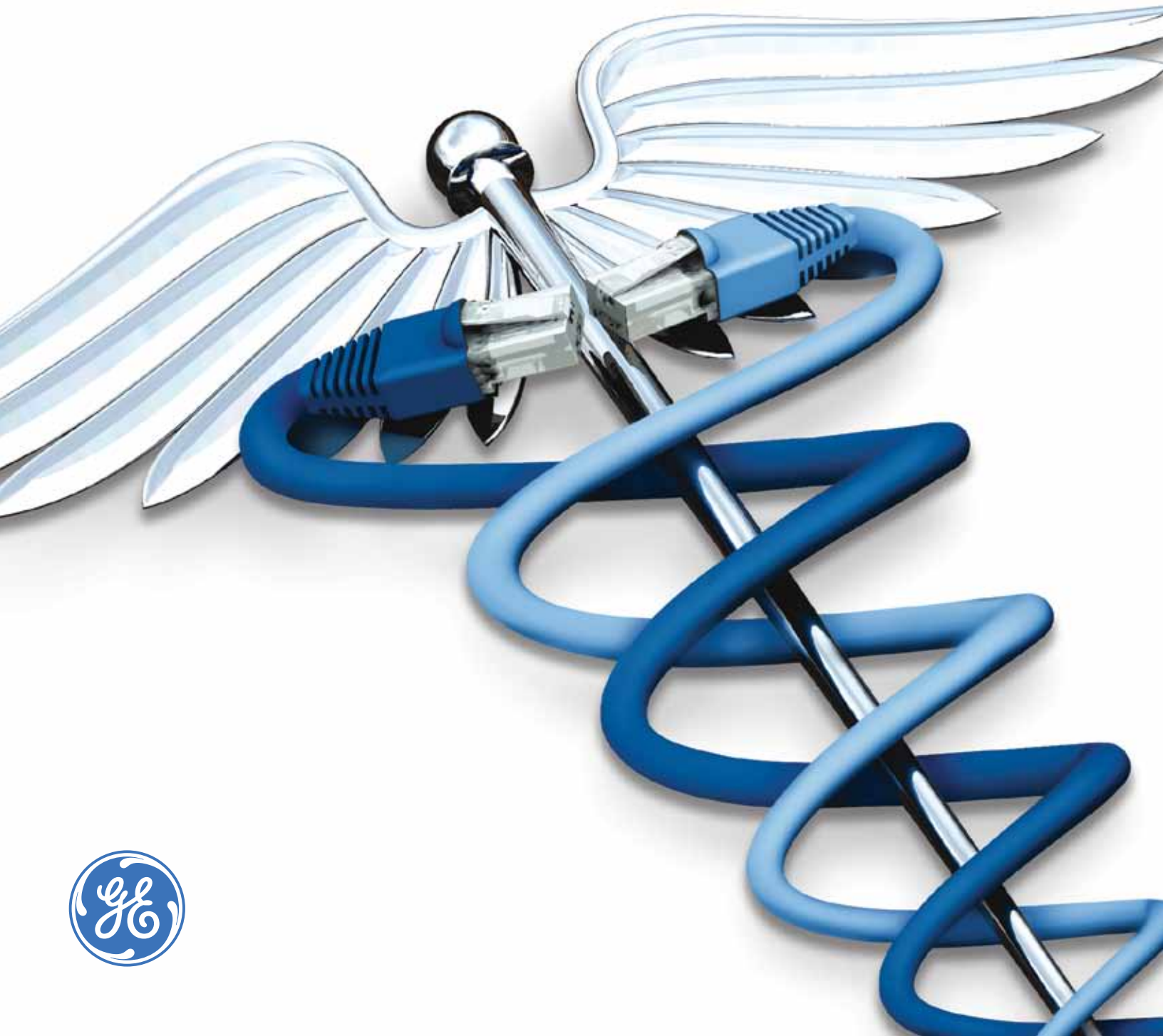


GE Healthcare

Master the World of Healthcare IT



Connectivity. The Backbone of the Healthcare Industry.

Networked healthcare today demands a deeper understanding of information technology and how it impacts the healthcare delivery process. Workflow and connectivity are vital to patient care. As more medical equipment becomes networked, new skills are required to support life-critical information as it moves through your enterprise.

GE Healthcare created a program dedicated solely to healthcare IT focusing on the knowledge you need to

manage and succeed in this rapidly changing environment, regardless of equipment choices, or IT skill level. Wireless, security, DICOM® and HL7®, all supported by Healthcare IT core skills, deliver what you need to help you succeed in this changing environment. This is where knowledge becomes power. Master these and you control your world.

For more information on the Healthcare IT Curriculum, visit www.gehealthcare.com/hcit

About the Continuing Education Portfolio from GE Healthcare

GE Healthcare Education Services offers three innovative portfolios of product and clinical education. Be prepared to roll up your sleeves, as our technical courses are primarily delivered in hands-on classroom exercises. Participants disassemble and assemble equipment, perform calibrations, troubleshoot problems in a controlled environment with approximately two students to one medical device. Taught by CompTIA CTT+™ certified instructors with over 150 years of combined experience, participants learn the same content we teach our own GE Healthcare Field Engineers.

GE Healthcare Education Services offers a comprehensive curriculum of Healthcare IT where technical professionals learn how to support mission and life critical Healthcare IT systems, processes, and best practices regardless of equipment choices. GE Healthcare Education Services also offers clinical education programs with clinical experts to bring you the latest evidence based online education to help improve patient care.

Call **1-888-799-9921** or visit www.gehealthcare.com/training.

Essentials of Healthcare IT



Essentials of Healthcare IT serves both Biomedical and IT professionals, forming the foundation for this increasingly important discipline. Explore the differences between mission-critical and life-critical networks.

Essentials of Healthcare IT teaches the skills to help identify connectivity problems from equipment failures, increasing uptime through first-line connectivity troubleshooting. Using actual equipment, you learn networks hands-on, from the inside out. Build or reinforce a solid foundation by mastering fundamentals critical to IT problem-solving and maintaining good workflow.

Extensive labs provide hands-on building and troubleshooting of flat, switched, routed and wireless networks. You will also learn to:

- Design and build a switched network
- Write switch configurations and troubleshoot VLANs
- Control network access with router configurations
- Configure access points and build a wireless network
- Learn IP addressing
- Use network analyzers
- Add hardware, drivers and peripherals
- Optimize performance with computer management

Wireless in the Healthcare IT Environment



With wireless healthcare increasing, you know how important it is to provide rapid, accurate support for your enterprise. Mastery of this course helps you improve efficiency in the wireless environment as you examine the installation, management and troubleshooting of RF technologies. Explore the uses of wireless within healthcare

including WMTS, WiFi, RFID, and cellular communications. Perform WMTS and 802.11 site surveys, use a spectrum analyzer and network analyzers, troubleshoot WMTS antenna systems, and learn frequency coordination principles. Wireless in the Healthcare IT Environment focuses on the skills critical to support any wireless technologies in your healthcare domain.

Hands on labs let you:

- Explore environmental effects on throughput of wireless systems
- Use a spectrum analyzer to scan WMTS and WiFi for interference
- Build a secure WiFi network
- Troubleshoot an antenna system splitter board
- Perform WMTS and WiFi site surveys
- Explore active and passive RTLS systems

Securing the Healthcare IT Environment



Moving information across healthcare IT infrastructures can incur risk at many levels. Network attacks, increased demand for remote access, passwords, and home network security all present challenges to securing your healthcare IT environment. Managing and mitigating these risks presents complex challenges. Securing the Healthcare IT Environment can help you protect your institution's valuable patient data.

You will learn to manage HIPAA compliance for your medical devices and use industry tools like MDS2. Explore the top 10 healthcare IT network attacks and learn ways to prevent them, as well as best practices for locking down your home network. You'll perform the ACCE/ECRI risk analysis and management plan. Learn how to safely patch and update computerized medical devices. Hands-on labs let you perform intrusion detection and build secure 802.11b networks.

- Scan for port vulnerabilities
- HIPAA compliance tools
- Configure biometrics identifiers
- Mitigate risk of networking medical devices
- Configure software firewalls

Essentials of DICOM®



The workflow of a healthcare imaging network is complex. Managing the acquisition, movement, and storage of large image files requires specialized technical skills. DICOM (Digital Imaging and Communication in Medicine) permits interoperability between imaging systems regardless of manufacturer. Compliance

to the DICOM standard is now considered essential in the digital imaging world.

Essentials of DICOM gives you the tools to become proficient in the installation, maintenance and troubleshooting of DICOM on digital imaging networks. Learn to analyze conformance statements for predicting connectivity and how to troubleshoot connectivity across layers of the OSI model within an imaging network. Hands-on labs let you:

- Configure and use of DICOM simulators
- Analyze DICOM traffic using the DICOM Validation Toolkit
- Use the DICOM standard and conformance statements to troubleshoot connectivity
- Troubleshoot all layers of an imaging network

Essentials of HL7®



Regardless of a hospital's equipment choice, this class prepares the participant to configure and troubleshoot HL7. Focusing on V2.x, students will learn to use the HL7 standard as a reference source.

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.

- Identify the purpose of HL7 within a healthcare setting
- Identify the relationship between hospital workflow and dataflow in an HL7 environment
- Evaluate the advantages and disadvantages of point-to-point interfaces and HL7 engines
- Use the HL7 V2.3 standard for structure and encoding rules
- Analyze common patient administration, order, results, and charges messages for conformance to the HL7 standard
- Perform basic troubleshooting using the HL7 Messaging Workbench software
- Explore key components of the interface design process

©2010 General Electric Company – All rights reserved.

General Electric Company reserves the right to make changes in specifications and features shown herein, or discontinue the product described at any time without notice or obligation.

HL7 is a registered trademark of Health Level Seven (HL7), Inc., the non-profit standards developing organization that is accredited by the American National Standards Institute (ANSI).

DICOM is the registered trademark of the National Electrical Manufacturers Association for its standards publications relating to digital communications of medical information

Contact your GE Representative for the most current information.
GE and GE Monogram are trademarks of General Electric Company.

GE Medical Systems Information Technologies, Inc., a General Electric company, doing business as GE Healthcare.

GE Healthcare
9900 Innovation Drive
Wauwatosa, WI 53226
U.S.A.
www.gehealthcare.com



imagination at work