

Essentials of DICOM® Course Outline

Course Summary:

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.

Course length:

3 days

Pre-requisites/Required Skills/Pre-course Work:

Essentials of Healthcare IT or equivalent

Location:

GE Healthcare facilities in Wisconsin

GE Healthcare facilities in Florida

At customer locations

Objectives:

- Identify the types of devices and their uses on a digital imaging network.
- Understand digital imaging workflow
- Identify where DICOM is used on a network
- Learn to troubleshoot connectivity across the layers of the OSI model within an imaging network, and isolate network connectivity issues from DICOM configuration issues
- Learn how to use the conformance, information object definition, service class specifications, and data dictionary sections of the DICOM standard
- Analyze common associations including verify, store, store commit, print, query retrieve, and MPPS
- Locate DICOM conformance statements on the Internet
- Compare DICOM conformance statement to predict connectivity between devices
- Demonstrate proficiency with the basic configuration requirements for DICOM connectivity
- Master the use of DICOM simulators, including DICOM Validation Tool Kit
- Demonstrate proficiency in the recording, playback, and analysis of network sniffers such as DICOM Validation Tool Kit



GE Healthcare Education Services

Equipment reviewed:

DICOM Validation Toolkit

Related courses:

Essentials of HL7

Student requirements:

None

Intended audience:

Nursing Informatics
PACS administrators
Biomedical engineers
IT technicians

Capacity:

Minimum 6 and maximum 10

Other:

Class can be held at remote locations

Price:

\$3500

DVT developed as open source by Philips, AFGA and ICT.

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

