

Healthcare IT Standards and PACS for Executives Seminar

Date

5 Apr 2010

Course Instructors

Herman Oosterwijk
Harshad Puppalwar

Venue

Singapore
(Venue to be confirmed)

Course Fee

Regular: S\$600.00
(with 7% GST: S\$642.00)
Early-bird price (by 26 Feb): S\$500.00
(with 7% GST: S\$535.00)

Description

This course provides a top-level introduction to health IT standards. It covers HL7, DICOM, IHE, PACS and EHR architecture. Lunch and 2 tea-breaks will be provided.

Target Audience

Healthcare CIOs, CTOs, Managers, Policymakers, and Planners

Instructors

Herman Oosterwijk is president of OTech Inc., an experienced teacher and consultant in the area of DICOM. He participates in standardization efforts and published several textbooks on the subject of PACS and DICOM.

Harshad Puppalwar is a Practice Lead with ST Electronics (Training & Simulation Systems) Pte Ltd. He has several years of experience in the field of Healthcare IT solving complex technical and business issues. He has designed several DICOM solutions and consults on projects involving Healthcare IT.

ST Electronics (Training & Simulation Systems) Pte Ltd and **OTech Inc** are pleased to offer a series of courses on medical imaging informatics and healthcare data exchange standards, catered for healthcare IT professionals, hospital PACS administrators, and clinicians based in the ASEAN region.

Courses will be taught by experienced educators from OTech, a leading US healthcare technology consulting and training firm specializing in medical imaging. Class size is limited to allow for more effective teacher-student interaction and students will benefit from the significant hands-on component.



Registration

Registration is now open!

Please email courseinfo_tss@stee.stengg.com to register.

Online registration at www.imedical-learning.sg

Contact

courseinfo_tss@stee.stengg.com

Organized by

 **ST Electronics**
(Training & Simulation Systems)
A company of ST Electronics

 **OTech**
Health Care Technology Solutions

Healthcare IT Standards and PACS for Executives Seminar Outline

- Healthcare IT standards, and how DICOM, HL7 and IHE fit in
- Interoperability issues with DICOM and HL7 and how IHE solves some of these
- DICOM basics based on practical issues
- Data formats
- Protocol
- Sample DICOM header and protocol

- DICOM vs HL7
- HL7 basics: important transactions (admissions, orders, results, updates)
- Sample HL7 message
- Other HL7 developments (V3, EHR, CCOW)

- IHE basics
- How does IHE improve efficiency, workflow and interoperability
- Important IHE profiles, scheduled workflow, CD exchange and others

- Relationship between PACS, IS, EMR, EHR and PHR
- EHR basics
- EHR architecture
- Sample EHR system



Contact

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 **ST Electronics**
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 **OTech**
Health Care Technology Solutions

PACS System Administration Course

Date

6 Apr 2010

Course Instructor

Herman Oosterwijk

Venue

Singapore

(Venue to be confirmed)

Course Fee

Regular: S\$600.00

(with 7% GST: S\$642.00)

Early-bird price (by 26

Feb): S\$500.00

(with 7% GST: S\$535.00)

Description

For all PACS administrators, this course provides an excellent in-depth understanding of PACS system administration including workflow, policies and procedures, and common issues. Lunch and 2 tea-breaks will be provided.

Target Audience

PACS Administrators, Healthcare IT Engineers

Instructor

Herman Oosterwijk is president of OTech Inc., an experienced teacher and consultant in the area of DICOM. He participates in standardization efforts and published several textbooks on the subject of PACS and DICOM.

Guest Speaker

To be confirmed



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Health Care Technology Solutions

PACS System Administration Course Outline

- PACS System Administration
 - PACS characteristics
 - PACS applications, i.e. Teleradiology, ICU, ER, etc.
 - Major PACS components
 - Acquisition, communication, viewing
 - The PACS core, i.e. archiving, database and workflow management
 - PACS support functions
 - Potential discrepancies between PACS components
 - Other PACS specialties: cardiology, endoscopy, surgery
 - PACS policies/procedures

Guest Speaker Topic

- To be confirmed



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How to Speak and Understand DICOM 3-Day Training Course

Date

7-9 Apr 2010

Course Instructors

Herman Oosterwijk
Harshad Puppalwar

Venue

Singapore
(Venue to be confirmed)

Course Fee

Regular: S\$1,500.00
(with 7% GST: S\$1605.00)
Early-bird price (by 26 Feb): S\$1,350.00
(with 7% GST: S\$1444.50)

Description

Featuring 3 days of fundamentals combined with many hands-on exercises, this small-group course, capped at 30 students, provides not only the basics of DICOM but includes troubleshooting scenarios. Students inspect DICOM headers and execute actual DICOM communication using the OT-DICE simulator and a test PACS system simulator. It also provides a primer in reading a DICOM Conformance Statement. A license for OT-DICE (a \$250 value), the DICOM reference guide and an e-copy of the DICOM Basics text book are included with the course. Computers will be provided for the hands-on portion. Lunch and 2 tea-breaks will be provided each day.

Target Audience

PACS administrators, PACS procurement personnel, healthcare IT professionals, radiologists, radiographers.

Instructors

Herman Oosterwijk is president of OTech Inc., an experienced teacher and consultant in the area of DICOM. He participates in standardization efforts and published several textbooks on the subject of PACS and DICOM.

Harshad Puppalwar is a Practice Lead with ST Electronics (Training & Simulation Systems) Pte Ltd. He has several years of experience in the field of Healthcare IT solving complex technical and business issues. He has designed several DICOM solutions and consults on projects involving Healthcare IT.



Registration

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How to Speak and Understand DICOM Course Programme



Day 1: DICOM Negotiation and Image Objects *

9:00am - 4.30pm

Introduction

- Seminar Objectives
- What is DICOM from a High Level
- Common Issues with the Standard

Details of the Standard

- Negotiation Process and Associations
- DICOM Roadmap
- SCU/SCP Roles
- Exercise with DICOM communication (hands-on)
- Image Objects and an Example
- Familiarization with header dumps (hands-on)
- SOP Class Concept
- Transfer and Abstract Syntaxes

DICOM conformance statements

- Conformance analysis
- Review of several samples

* **Day 1's class can be taken on its own.**

Day 2: Image Quality and DICOM Communication Services

9:00am - 4.30pm

Service classes

- Verification, Store, Storage Commitment
- Query/Retrieve and Print
- Query implementation (hands-on)
- Store implementation (hands-on)
- Modality Worklist and Performed Procedure Step
- Modality Worklist implementation (hands-on)
- Other Services

Image Quality and Integrity

- Pixel Pipeline
- Display Standard
- Softcopy Presentation State
- Presentation LUT
- Image quality parameters in the header (hands-on)

Miscellaneous topics

- DICOM Compression
- Structured Reporting
- DICOM media (CD's)

Day 3: DICOM Networking and Troubleshooting

9:00am - 4.30pm (all-hands-on)

- Basic TCP/IP Network Support for DICOM
- Description of Various DICOM Testing Tools
- Details of DICOM Association Negotiation
- Details of DICOM Message Content
- Approaches to Troubleshooting DICOM Problems
- Installation and Use of the OTech Validation Tool (provided as part of the class)
- Analyzing Good Connections and Data
- Analyzing Problem Connections and Data
- Discussion of Typical Real-world Problems
- Overview of DICOM Viewers and Shareware Tools