Application training first semester 2014
Knowledge means staying ahead

www.siemens.com/healthcare-training-center
Our Training Courses

- **Classroom Training**
  Classroom training sessions generally take place at our Training Centers. Theoretical principles of imaging are supplemented by a wide range of practical exercises on the most recent systems, giving learners the opportunity to gain skills for day-to-day clinical work.

- **Clinical Workshop**
  Clinical workshops are training programs with duration of one to several days and special focus on clinical issues. They include lectures given by clinical experts, live examinations, and in many cases practical exercises.

- **Fellowship Program**
  Participants accompany clinical experts on their daily rounds in a specialist unit, observe examinations and diagnostic procedures, and expand their skills through direct interaction with mentors.

- **E-Learning**
  E-Learning content is available on CD-ROMs, as web-based training, and in live virtual classrooms. You receive interactive application training in which system operation is clearly presented. Most E-Learning courses conclude with a certification exam.

**CME Credit Points:** Several of our training courses have been submitted to the Bavarian Medical Association for approval of credits in category C.

**Credit Points für MTRAs:** Several of our training courses have been submitted to the training program offered by the DIW-MTA and the DVTA for voluntary certification in category C. The validation will be carried out by the DIW-MTA and DVTA.

**DFP Credit Points:** Several of our training courses taking place in Austria have been submitted to the Austrian Medical Association for approval of credits.
Know-how in theory and practice

Our global training concept offers participants learning opportunities throughout the world on the newest systems at state-of-the-art training centers in Germany, the US and China.

Participants can attend hands-on courses with colleagues covering the maintenance and operation of medical systems and applications, without the distractions of daily clinical routine. Tailored E-Learning courseware optimally supplements our instructor-led courses.

Many courses take place at the Imaging Science Institute (ISI) Erlangen, Germany. The ISI Erlangen is a cooperative project of the University Hospital Erlangen and Siemens Healthcare. The partners’ exceptionally close cooperation facilitates practically orientated training in real clinical surroundings, as the ISI is located right at the University Hospital Erlangen. The course participants attend block courses in routinely operated radiological examination rooms with experienced doctors acting as trainers and also benefit from the comprehensive clinical and technical experience of the University Hospital Erlangen.

Imaging Science Institute
Universitätsklinik Erlangen
Ulmenweg 18
91054 Erlangen, Germany
On the following pages you will find a complete listing of Classroom Courses and Clinical Workshops. From “Angiography” to “Ultrasound”, our courses give users system, application and technology training that combines theoretical principles with hands-on exercises in a one-day to five-day course format.

You can extend your skills and gain new knowledge by working closely on course content with your peers. Offering many of our courses in collaboration with various partner hospitals gives them a strong practical emphasis.

**On-site training:** If the course times do not fit your schedule, contact us about on-site training. Our experts offer you and your employees training designed to meet your specific requirements – at your company site, on your own systems.

Siemens AG  
Healthcare Sector  
Training Center, Course Administration  
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E-mail: admin-tc.healthcare@siemens.com  
Dear valued customer,

It is our philosophy to offer continued education to ensure lifelong knowledge and performance improvement. For many years we have been working closely with you to develop your personalized education strategy. We understand the importance of regular training, tailored to your needs. Enhanced expertise, greater efficiency, and high productivity are key for best diagnostic quality, faster patient throughput, and optimized resource management.

For a system or application user it is vitally important to keep pace with advances in technology and to improve your skills in the use of technical medical equipment. To help you find courses of interest to you we have introduced an overview page breaking down the courses into target groups: this tells you at a glance which group each class is aimed at. Furthermore, you can see if the class covers basic or more advanced skills.

Whether you are a first-time user or an experienced specialist, courses given at our international training centers provide just the right learning environment. Our hands-on courses and sequenced training modules allow learners to acquire skills quickly and easily.

The result – your company’s skills base and that of your employees – is kept at a constantly high level.

Our classes also include information about Combined Applications to Reduce Exposure (CARE). Thanks to advanced technologies and applications, outcomes for diagnosis and intervention can be optimized as well as reduced in radiation.

To enhance our portfolio this year it is our pleasure to introduce a Certification System for MTRAs: MTRAs may obtain Credit Points for certification in a voluntary training program provided by the DIW-MTA and the DVTA. In this Training Booklet the relevant courses are marked with the corresponding symbol for the certification program and the assigned number of points. You can find further information and links for registration under: www.diw-mta.de/fortbildung-zertifikat

I would very much like to welcome you to one of our Healthcare Training Centers in the future.

Dr. Patrick Amarteifio

Dr. Patrick Amarteifio
Siemens AG
Healthcare Sector
Customer Solutions
Vice President Training
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Multislice CT Scanner
Basic Course

This three-day course is suitable for participants who wish to extend their basic knowledge of multislice CT. Using the most advanced scanners available, this course covers the theory and practice of multislice CT scanning, providing participants with detailed knowledge on multislice CT scanners and image post-processing. Emphasis is placed on workbook-based exercises. Participants can immediately test their knowledge using the latest multislice CT systems. This course is offered in cooperation with the Radiological Institute of the University Hospital Erlangen.

Audience:
- CT users

Course content:
- Overview of safety issues, principles of image acquisition and reconstruction
- Technical principles of multislice CT
- Intensive training on the user interface
- Image quality criteria, effects of scanning parameters (kV, mA, convolution kernel, etc.)
- Artifact formation and prevention
- Quality assurance: constancy testing, contrast resolution
- Bolus triggering
- Introduction to data post-processing, e.g. 2D and 3D: MIP, MPR and volume rendering
- Working in network environments

Dates and language:
Apr 23–25, 2014 German
Jun 11–13, 2014 German
Apr 28–30, 2014 English

Organizer:
Imaging Science Institute
University Hospital Erlangen
Ulmenweg 18
91054 Erlangen, Germany

Participants:
4–10 persons

Course fee:
960 EUR*
*This course is tax-exempt according to § 4 No.21 UStG (German VAT-law)

Course ID:
CTBREFRESH

Registration:
To register, please go to:
www.siemens.com/healthcare-training-center

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*submitted
The objective of this workshop is to introduce participants to CT intervention and to optimize related operating workflows based on the example of the SOMATOM® Definition. Under the guidance of experienced interventional radiologists and through the use of practical case studies, participants can practice handling interventions safely. This course is offered in cooperation with the Radiological Institute of the University Hospital in Erlangen.

Workshop instructors:
PD. Dr. Michael Lell and Dr. Axel Schmid from the Radiological Institute of the University Hospital in Erlangen

Audience:
- Interventional radiologists
- Experienced MTRAs

Course content:
- Intensive training on i-CARE, the CT intervention user interface on the SOMATOM Definition
- 3D planning of the optimal access path
- Safe completion of interventions with a complex access

Registration:
To register, please go to: www.siemens.com/healthcare-training-center

Dates and language:
on request, German or English

Organizer:
Imaging Science Institute
University Hospital Erlangen
Ulmenweg 18
91054 Erlangen, Germany

Participants:
6 –10 persons

Course fee:
560 EUR*
*This course is tax-exempt according to § 4 No.21 UStG (German VAT-law)

Course ID:
CT8APINTER

*submitted
This two-day course provides participants with hands-on training in the interpretation of cardiac CTA datasets. Participants have the opportunity to use workstations and evaluate original images of coronary CTA in compliance with AHA level II certification requirements.

**Workshop instructor:**
Professor Stephan Achenbach, MD
Head of Department of Cardiology
University of Erlangen-Nuremberg

**Prerequisites:**
- Experience with Cardiac CT

**Audience:**
- Radiologists
- Cardiologists

**Course content:**
Two participants work together at a workstation, with faculty available to provide guidance and support. Invasive coronary angiography data will be available for each CT angiography. Scientific lectures round off the training syllabus.

**Registration:**
To register, please go to:
http://www.siemens.com/SOMATOMEducate
This two-day course is suitable for participants who wish to extend their knowledge of cardiac CT and related post-processing programs. Theoretical content is supplemented by practical exercises to illustrate and deepen learner knowledge.

**Audience:**
- Physicians
- MTRAs with little or no experience working with cardiac CT systems

**Course content:**
- Technical principles of multislice CT and dual-source CT
- Dose modulation options
- Gated/triggered cardiac scan protocols
- Artifact recognition and prevention
- Cardiac-specific data processing
- 2D and 3D, MIP, MPR and VRT
- *syngo®* Calcium Scoring and *syngo* Circulation

**Registration:**
To register, please go to:
www.siemens.com/healthcare-training-center

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**Dates and language:**
Jun 26–27, 2014 German

**Organizer:**
Imaging Science Institute
University Hospital Erlangen
Ulmenweg 18
91054 Erlangen, Germany

**Participants:**
6–12 persons

**Course fee:**
780 EUR*
*This course is tax-exempt according to § 4 No.21 UStG (German VAT-law)

**Course ID:**
CT8CARDREF
This three-day workshop includes scientific lectures, clinical presentations and live examinations using the SOMATOM Definition Flash system. Participants are given the opportunity to apply what they have learned by completing practical workstation exercises.

Workshop instructor:
Professor Christoph Becker, MD
Department of Radiology

Audience:
- Radiologists
- Cardiologists

Course content:
- Technical principles of computed tomography
- Completing and evaluating Calcium Scoring and CT Coronary Angiography
- Working with applications included in the Cardiac Engine

Registration:
To register, please go to:
http://www.siemens.com/SOMATOMEducate
The ability to simultaneously operate two X-ray sources at different energy levels is opening the door to a host of clinically useful applications. This two-day workshop introduces participants to the physical principles of Dual Energy and provides a supervised hands-on study of clinical data sets followed by interactive proof-reading and discussions.

**Workshop instructor:**
Associate Professor Thorsten R.C. Johnson, MD
Associate Professor of Radiology and Head of Computed Tomography at Munich University Hospital, Germany

**Audience:**
- Radiologists
- Radiographers

**Course content:**
- Physical principles of Dual Energy
- Introduction to data acquisition
- Evaluation of datasets showing how to optimize data reconstruction and clinical results
- Hands-on exercises followed by interactive review and discussion

**Registration:**
To register, please go to:
http://www.siemens.com/SOMATOMeducate

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This two-day workshop includes scientific lectures, syngo user interface presentations and hands-on units. The main emphasis lies on presenting the multislice CT (MSCT) technology, dosimetry and the application of contrast media. In addition, the workshop covers advanced skills in patient preparation as well as examination planning and implementation. Using state-of-the-art syngo Multi-Modality workstations, participants can expand their knowledge and practice what they have learned in groups of no more than 10 people.

Prerequisites:
- Experience with Multislice Spiral CT, dosimetry and application of contrast media

Note: This workshop can be combined with a clinical fellowship which provides demonstrations of patient preparation and examinations on MSCT Sensation 64, Sensation Open and Sensation 16 scanners in a live clinical setting.

Audience:
- Radiologists
- RT/MTRAs

Course content:
- syngo user interface functionality
- Presentation of syngo Taskcards: workflow concepts, evaluation strategies, data analysis, contents of findings, etc.
- Documentation of results
- Clinical cases with MSCT Sensation 64, Sensation Open and Sensation 16 scanners
- Hands-on units

Registration:
To register, please go to: www.siemens.at/MEDtraining
This one-day workshop not only refreshes basic MSCT knowledge, but also includes presentation of the syngo and syngo.via user interface and hands-on training. The main emphasis lies on the presentation of MSCT image post-processing. The topics of MSCT technology and dosage, patient preparation, examination planning and implementation, as well as evaluation strategies and workflow concepts are covered. Using state-of-the-art syngo Multi-Modality workstations and syngo.via server-client based workplaces, participants can expand their knowledge and practice what they have learned in groups of no more than 12 people.

Note: This workshop can be combined with the MSCT Angiography, the Cardiac CT or the CT Oncology Workshop (see following pages).

Prerequisites:
- Familiarity with Multislice Spiral CT and previous experience with operating the syngo and syngo.via user interface

Audience:
- Radiologists
- RT/MTRAs

Course content:
- Presentation of MSCT image post-processing, MSCT technology and dosage
- syngo 3D and user interface functionality
- Presentation of syngo Viewing and Inspace Taskcards and syngo.via MM Workflows for image processing as part of data analysis and documentation
- Hands-on training

Registration:
To register, please go to: www.siemens.at/MEDtraining

Dates and language:
Please see:
www.siemens.at/MEDtraining

Organizer:
Medical University of Vienna
Department of Radiology
Währinger Gürtel 18-20
1090 Vienna, Austria

Participants:
5–12 persons

Course fee:
550 EUR incl. VAT

9 DFP CREDITS*
This two-day workshop includes scientific lectures, colon user interface presentations with main focus on interpretation and reporting of colon cases. Using state-of-the-art syngo MultiModality workstations and syngo.via server-client based workplaces, participants can expand their knowledge and practice what they have learned in groups of no more than 12 people.

**Prerequisites:**
- Familiarity with Multislice Spiral CT and previous experience with operating the syngo and syngo.via user interface

**Audience:**
- Radiologists
- RT/MTRAs

**Course content:**
- syngo and syngo.via user interface functionality
- Clinical presentation: polypoid lesions, malignomas, inflammatory bowel diseases, postoperative findings and extra colonic findings
- Presentation of syngo Taskcards and syngo.via workflows: workflow concepts, evaluation strategies, data analysis, contents of findings, etc.
- Hands-on training

**Dates and language:**
Please see: www.siemens.at/MEDtraining

**Organizer:**
Medical University of Vienna
Department of Radiology
Währinger Gürtel 18-20
1090 Vienna, Austria

**Participants:**
5–12 persons

**Course fee:**
1,100 EUR incl. VAT

**Registration:**
To register, please go to: www.siemens.at/MEDtraining
This one-day MSCT angiography workshop covers the topics of patient preparation, examination planning and implementation. Participants are additionally introduced to user interface functionality, evaluation strategies, data analysis, contents of findings, and workflow concepts. Using state-of-the-art syngo MultiModality workstations and syngo.via server-client based workplaces, participants can expand their knowledge and practice what they have learned in groups of no more than 12 people.

Note: This workshop can be combined with the 3D Imaging with syngo and syngo.via, Clinical Workshop (see p. 15).

**Prerequisites:**
- Familiarity with Multislice Spiral CT and previous experience with operating the syngo and syngo.via user interface and image post-processing

**Audience:**
- Radiologists
- RT/MTRAs

**Course content:**
- Application of contrast media
- Examination strategies
- Data management
- Assessing CPR, MIP, and VRT
- Indication for CTA
- Clinical significance
- Hands-on training

**Registration:**
To register, please go to: www.siemens.at/MEDtraining
This one-day intensive course on cardiac CT and CTA includes scientific lectures state-of-the-art, syngo and syngo.via user interface presentations and hands-on training. Using state-of-the-art syngo MultiModality workstations and syngo.via server-client based workplaces, participants can expand their knowledge and practice what they have learned in groups of no more than 12 people.

**Prerequisites:**
- Experience with Multislice Spiral CT and some experience with operating the syngo and syngo.via user interface are required (see 3D Imaging with syngo and syngo.via, Clinical Workshop, p. 15)

**Audience:**
- Radiologists
- RT/MTRAs

**Course content:**
- Underlying technology
- Patient preparation
- Examination strategies
- Image post-processing on real case studies
- Anatomical fundamentals
- Step-by-step image analysis
- syngo Calcium Scoring
- Coronary vessels
- Clinical indications

**Dates and language:**
Please see: www.siemens.at/MEDtraining

**Organizer:**
Medical University of Vienna
Department of Radiology
Währinger Gürtel 18-20
1090 Vienna, Austria

**Participants:**
5–12 persons

**Course fee:**
550 EUR incl. VAT

**Registration:**
To register, please go to: www.siemens.at/MEDtraining
This one-day clinical user training course introduces participants to working with the syngo CT Oncology and LungCARE applications and syngo.via MM Oncology workflows for objective tumor measurement in oncology staging and follow-up. After a general introduction on what is required of radiology in daily oncological routine, special emphasis will be placed on RECIST and volumetric analysis and the clinical background of quantitative abdominal and pulmonary imaging in oncology. Using state-of-the-art syngo MultiModality workstations and syngo.via server-client based workplaces, participants can expand their knowledge and practice what they have learned in groups of no more than 12 people.

Prerequisites:

- Experience with Multislice Spiral CT and operating the syngo and syngo.via user interface
- See 3D Imaging with syngo and syngo.via, Clinical Workshop, p. 15

Audience:

- Radiologists
- Internists, surgeons
- RT/MTRAs with advanced knowledge of CT-Oncology

Course content:

- syngo and syngo.via user interface functionality
- Patient preparation, examination planning and implementation
- Clinical presentations of tumor biology of metastasis, Tu-staging, Recist criteria, metastasis
- Presentation of syngo Taskcards and syngo.via workflows: workflow concepts, evaluation strategies, data analysis, contents of findings, etc.
- Hands-on training

Registration:
To register, please go to: www.siemens.at/MEDtraining

Dates and language:
Please see: www.siemens.at/MEDtraining

Organizer:
Medical University of Vienna
Department of Radiology
Währinger Gürtel 18-20
1090 Vienna, Austria

Participants:
5–12 persons

Course fee:
550 EUR incl. VAT
This one-day syngo.via Imaging Workshop in Computed Tomography will provide syngo.via user with advanced CT workflow knowledge, evaluation and documentation principles in theoretical and practical training sessions on server – client based demo consoles. There will be as well an update to recent software version changes to get acquainted with news on basic configuration options, different roles and the user interface. The main topic of the course is to assure knowledge of advanced visualization in CT Imaging throughout all CT-Engines.

Prerequisites:
- Basic IT and DICOM skills, clinical workflow and basic 2D/3D imaging skills are mandatory (see separate self-test in course details)

Course content:
- Update softwares “state of the art”
- CT Vascular
- CT Cardiac
- MM Oncology
- CT Bone reading
- CT Colon
- CT Pulmo 3D
- CT Neuroperfusion
- CT Neuro DSA
- CT Dual Energy

Audience:
- syngo.via user (radiologists, RT/MTRAs, physicians)

Registration:
To register, please go to: www.siemens.at/MEDtraining
Specialists from our physics department will discuss in depth dose saving possibilities Siemens offers with the SOMATOM CT systems. Participant will learn how to perform necessary quality controls and receive valuable tips.

**Audience:**
- Physicists

**Course content:**
- Physical principles of SOMATOM CT systems
- State-of-the-art technologies such as Dual Energy, CARE kV, CARE Dose4D, iterative reconstruction techniques
- CT-factory and detector center tour

**Registration:**
To register, please go to:
http://www.siemens.com/SOMATOMEducate

**Dates and language:**
Mar 18–19, 2014 English
Sep 23–24, 2014 English

**Organizer:**
Siemens Healthcare
Siemensstraße 1
91301 Forchheim, Germany

**Participants:**
5–10 persons

**Course fee:**
2,000 EUR incl. VAT*
*This course is tax-exempt according to § 4 No.21 UStG (German VAT-law)
Prof. Stephan Achenbach, MD and Markus Kasel, MD, both with several years of experience as TAVI operators, have jointly developed this unique training concept. This one-day workshop covers state-of-the-art pre-procedural planning tools including 2D and 3D imaging within the cath lab and at the CT scanner, as well as dedicated post-processing for highly effective implantations in a small learning group.

**Course content:**
- Lectures & workstation training:
  - Significance of preprocedural planning for TAVI
  - Potential of the syngo Aortic ValveGuide
  - Radiation protection and CM management in TAVI
  - CT for TAVI interpretation
  - Acquisition tips and tricks for syngo DynaCT Aortic ValveGuide
  - Interactive case discussion
- Live in the box cases:
  - syngo DynaCT Cardiac and syngo Aortic Valve-Guide – data acquisition and postprocessing
- Live Demonstrations:
  - syngo.CT Cardiac Function – Valve Pilot
  - syngo Aortic ValveGuide

**Prerequisite:**
- Experience with Cardiac CT

**Audience:**
- Radiologists
- Cardiologists
- Cardiac Surgeons

**Registration:**
Please contact your local Siemens representative or Mrs. Katrin Seidel: katrin.seidel@siemens.com
Interventional Cardiology
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*NEW*
Interventional Cardiology

AXIOM Artis dBC, AXIOM Sensis and Artis zee floor

Participants in this course are joined by an expert to observe the clinical workflow at a major pediatric cardiology center, exchange information with colleagues and extend their skills and knowledge. The course also demonstrates how AXIOM Artis dBC, AXIOM Sensis and Artis zee floor are used in interventional cardiology. The Department of Cardiology at the Leopoldina Hospital Schweinfurt, headed by Prof. Dr. Hubert Seggewiß, specializes in interventional cardiology and minimally invasive therapies.

Audience:
- Cardiologists
- MTRAs with basic knowledge

Course content:
- Diagnostic left and right heart catheter examinations
- Percutaneous coronary intervention (PCI) with stent implantation
- Percutaneous septal ablations for hypertrophic obstructive cardiomyopathy (HOCM)
- Percutaneous umbrella closure of ASD and PFO
- Mitral valvuloplasty
- Peripheral angiography
- Angioplasty of peripheral vessels
- Stenting of carotid stenosis
- PTA for renal arterial stenosis

Dates and language:
on request,
German or English

Organizer:
Leopoldina Hospital
Medizinische Klinik I
Gustav-Adolf-Straße 8
97422 Schweinfurt
Germany

Participants:
3 persons maximum

Course fee:
on request

Registration:
Please contact your local Siemens representative.
Introductory Course in Interventional Cardiology

Hands-on training vascular models and virtual-reality simulators

During the interactive course, you will learn about coronary angioplasty, the angiographic projections of the stenosis, the right selection of catheters, even tips and tricks of wire techniques and catheter intervention. Exercises are conducted using a CATHI computer-based simulation system and the newly developed pulsatile coronary model, CoroSim, in conjunction with a fully functional Siemens biplane flat detector angiography system. A newly upgraded scenario based virtual simulation system developed by Terumo enables participants to refresh and experience situational procedural sequences. A silicon vessel model using real interventional devices will enhance reflection of knowledge transforming into acquired skills. In addition to the hands-on experiences, lectures are presented on topics such as radiation protection, complications and quality management.

Course content:
- Seminar:
  - Optimized angiographic settings at intracardiac catheter examination and intervention
  - Basic Principles of radiation dose reduction
  - Quality management in the cath lab
  - Case studies: Complication management in the cath lab
- Hands-on Training:
  - Coronary intervention exercises using CATHI computer based simulation system
  - Coronary intervention training using a pulsatile heart simulator with a Siemens angiography system
  - Training with 3-dimensional coronary quantification tool
  - Trans-radial access

Audience:
- Physicians with little or no experience in interventional cardiology

Registration:
Please contact: christina_ng@nuhs.edu.sg

Dates and language:
Please contact: Mrs. Christina Ng, E-mail: christina_ng@nuhs.edu.sg
English

Organizer:
Cardiac Department
National University Heart Centre, Singapore
1E Kent Ridge Road
NUHS Tower Block, Level 9
Singapore 119228

Participants:
small group size to enhance learning success

Course fee:
1,900 USD excl. VAT

Siemens Pte Ltd is not responsible for the content of external websites.
**System Application Training**

**AXIOM Artis, Artis zee and Dose Management E-Learnings**

**Language:**
English

**Course fee:**
free of charge

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**AXIOM Artis and Artis zee**

AXIOM Artis (Software VB 11, VB 22, VB 23, VB 30/31) / Artis zee (software VC 12C or higher)

This E-Learning provides a general overview of the Artis product family, system variants, standard features and available options.

**Course content:** Artis system basics, Artis system operation, syngo basics, advanced syngo features

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**AXIOM Sensis**

AXIOM Sensis (v2.1) and AXIOM Sensis XP (v2.2)

This E-Learning introduces users to the basic concepts of Sensis, a recording system for both hemodynamics and electrophysiology.

**Course content:** System overview, hemodynamics, electrophysiology training

---

**Dose Management**

This E-Learning introduces radiation Dose Management, covers effects and risks of radiation, with a special focus on strategies for reducing exposure.

**Course content:** Basics of radiation, X-ray generation, feedback system, applied dose effects, dose-saving measures

---

**Audience:**
- AXIOM Artis, Artis zee and AXIOM Sensis system users

**Registration:**
Go to “myTraining Login” at: www.siemens.com/AXIOM-E-Learning
Interventional Cardiology

System Application Training
Understanding Electrophysiology

This E-Learning course provides a general overview of the equipment used in an EP lab. In addition, the course familiarizes users with EP workflows and provides a wealth of medical and technical information related to the many types of cardiac arrhythmias and their treatment.

Audience:
- Everyone interested in Electrophysiology

Course content:
- Virtual tour
- Case studies on pure diagnostics
- AVNRT
- Atrial flutter and atrial fibrillation

Registration:
Go to “myTraining Login” at: www.siemens.com/AXIOM-E-Learning

Language:
English
Course fee:
free of charge
Professor Stephan Achenbach (MD) and Markus Kasel (MD) both with several years of experience as TAVI operators have jointly developed this unique training concept. This one-day workshop covers state-of-the-art pre-procedural planning tools including 2D and 3D imaging within the cath lab and at the CT scanner as well as dedicated post-processing for highly effective implantations in a small learning group.

**Course content:**
- Lectures & workstation training:
  - Significance of preprocedural planning for TAVI
  - Potential of the syngo Aortic ValveGuide
  - Radiation protection and CM management in TAVI
  - CT for TAVI interpretation
  - Acquisition tips and tricks for syngo DynaCT Aortic ValveGuide
  - Interactive case discussion
- Live in the box cases:
  - syngo DynaCT Cardiac and syngo Aortic Valve-Guide – data acquisition and postprocessing
  - Live Demonstrations:
  - syngo.CT Cardiac Function – Valve Pilot
  - syngo Aortic ValveGuide
Interventional Radiology
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Interventional Radiology

Interventional Radiology
Simulator Training

In addition to intensive small-group training on the treatment of stenoses of the liver, pelvic and femoral arteries, this two-day workshop also focuses on the fundamentals of modern radiology. Under the guidance of experienced interventional radiologists and through the use of practical case studies, participants are trained how to safely handle interventions at varying levels of difficulty on modern, realistic simulators.

Audience:
- Radiologists
- Neuroradiologists
- MTRAs

Course content:
- Endovascular therapy of renal artery stenosis
- Treatment of stenoses and occlusions in pelvis and a. femoris superficialis (AFS)
- Simulator training
- Case discussions

Registration:
To register, please go to:
www.siemens.com/healthcare-training-center

Dates and language:
on request,
German

Organizer:
Imaging Science Institute
University Hospital Erlangen
Ulmenweg 18
91054 Erlangen, Germany

Participants:
6–12 persons

Course fee:
280 EUR*
*This course is tax-exempt according to § 4 No.21 UStG (German VAT-law)

Course ID:
AX8ANGKAT
Participants in the fellowship program are introduced to the use of Artis zee biplane and syngo DynaCT in neuroradiology. Using imaging diagnostics, disorders of the central nervous system are examined by the Neuroradiology Department at the University Hospital Erlangen and Prof. Dr. Arnd Dörfler. Interventional and therapeutic neuroradiology are also covered in the course.

Prerequisites:
- Advanced skills in angiography

Audience:
- Radiologists
- Neuroradiologists
- MTRAs

Typical examinations:
- Diagnostic angiography bilateral intracranial MCA stenoses (rotational angiography)
- Follow-up angiography after GDC embolization (rotational angiography)
- Carotid artery stenting (rotational angiography and syngo DynaCT)
- Diagnostic spinal angiography
- Postoperative angiography control after clipping MCA aneurysms (rotational angiography)
- Coiling of aneurysms after SAH

Registration:
Please contact your local Siemens representative.

Dates and language:
on request, German or English

Organizer:
University Hospital Erlangen
Department of Neuroradiology
Schwabachanlage 6
91054 Erlangen, Germany

Participants:
3 persons maximum

Course fee:
on request
Participants are introduced to the use of Artis zeego and Sensis in interventional oncology. The University Hospital Munich, Department of Angiography and Interventional Radiology, uses imaging systems to examine and treat various types of vascular disease.

Prerequisites:
- Basic knowledge of angiography

Audience:
- Radiologists and Physicists
- MTRAs

Typical examinations:
- Leg-pelvic angiography
- Port implantation and explantation
- Chemoembolizations
- Technetium angiography
- Selective Internal Radiation Therapy (SIRT)
- Transjugular Intrahepatic Portosystemic Shunt (TIPSS)

Registration:
Please contact your local Siemens representative.
This two-day workshop covers state-of-the-art tumor treatment techniques, including 2D and 3D imaging within the angio suite and dedicated post-processing, as well as innovative embolic materials such as drug eluting beads and radiation microspheres for highly effective embolizations.

Experienced interventional radiologists will share their expertise and provide you with valuable tips and tricks during this clinical training. By combining lectures, practical exercise & live cases, this training is the best way to broaden your knowledge.

**Course content:**
- Lectures & live demonstrations:
  - Particles and beads in embolization procedures
  - Concepts of radioembolization
  - Techniques for tumor ablation (RFA, MWA, Cryo, IRE)
  - Potential of syngo DynaCT in Interventional Oncology
- Live Demonstrations:
  - syngo InSpace3D and syngo DynaCT postprocessing
  - syngo Embolization Guidance
  - syngo iFlow
  - syngo InSpace 3D/3D Fusion
- Possibility for hands-on model training:
  - Beads, coils, embolization materials

**Audience:**
- Interventional radiologists

**Registration:**
Please contact your local Siemens representative or Mrs. Larissa Heinrich:
larissa.heinrich@siemens.com

**Dates and language:**
1 – 2 workshops per year, English

**Scientific Director:**
PD Dr. med. Tobias Jakobs
Department of Diagnostic and Interventional Radiology
Hospital Barmherzige Brüder Munich

**Participants:**
max. 15 persons per course

**Course fee:**
1,190 EUR*

*This course is tax-exempt according to § 4 No.21 UStG (German VAT-law)
Interventional Radiology

Institute for Radiology and Interventional Therapy
Artis zee ceiling

The Vivantes Hospital Neukölln using an Artis zee ceiling is a very modern equipped hospital in Berlin. They have a total of 1051 beds and 20 medical speciality departments; the hospital employs 398 doctors and 875 nurses. The participants learn how the system is used in Interventional Radiology, abdominal, peripheral interventions, chemo-embolizations and occasional hybrid procedures.

Audience:
- Radiologists
- Radiographers and technicians with a broad experience in angiography

Course content:
- Interventional Radiology/abdominal & peripheral
- Percutaneous transluminal Angioplasty
- Mechanicalvascular recanalization and intra-arterial Thrombolysis
- Aspirational thrombectomy
- Interventional therapy of Aortic aneurysm
- Transarterial chemoembolization of liver tumors
- Radiofrequency ablation in liver and kidney tumors
- Transjugular intrahepatic portosystemic Stent-Shunt (TIPS)
- Chemoembolization of liver tumors
- Embolizations of hemorrhages and tumor

Dates and language:
on request,
German or English

Organizer:
Vivantes Klinikum Berlin-Neukölln
Institute of Radiology and Interventional Therapy
Rudower Straße 48
12351 Berlin, Germany

Participants:
1–3 persons

Course fee:
on request

Registration:
Please contact your local Siemens representative.
The Vivantes Hospital Neukölln which is using an Artis zee biplane is one of the most modern hospitals in Berlin. They have a total of 1,051 beds and 20 medical speciality departments with 398 doctors and 875 nurses working in this hospital.

**Audience:**
- Radiologists
- Neuroradiologists
- MTRAs

**Course content:**
- Interventional Neuroradiology
- Embolization with different materials in cerebral aneurysms, cerebro-spinal vascular malformations, arterio-venous and tumors of CNS, spine, and head/neck area
- Stenting of vascular stenosis/revascularisation in acute stroke therapy
- Analysis of arterio-venous flow with syngo iFlow-Imaging

**Registration:**
Please contact your local Siemens representative.

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### Dates and language:
- **on request,**
- German or English

### Organizer:
Vivantes Klinikum Berlin-Neukölln
Institut of Clinical and Interventional Neuroradiology
Rudower Straße 48
12351 Berlin, Germany

### Participants:
1–3 persons

### Course fee:
on request
Interventional Radiology

Innovations in Interventional Neuroradiology
Clinical Workshop and Hands-on Training

This two-day workshop covers state-of-the-art neuroangiographic techniques, including functional imaging within the angio suite and dedicated post-processing, as well as innovative areas of neurointerventions such as flow diverter therapy for complex aneurysms and the endovascular management of acute stroke.

Experienced interventional neuroradiologists will share their expertise and provide you with valuable tips and tricks during this clinical training. By combining lectures, practical exercise & live cases, this training is the best way to broaden your knowledge.

Course content:
- Lectures & live demonstrations:
  - Acute stroke imaging and clinical workflow
  - Endovascular therapy in acute stroke
  - Flow diverter for complex aneurysms
  - State-of-the-art neuroangiography & potential of syngo DynaCT
  - Non-invasive follow-up of cerebrovascular interventions
- Live demonstrations & individual hands-on training:
  - syngo InSpace3D and syngo DynaCT postprocessing
  - syngo Neuro PBV IR
  - syngo iFlow
  - syngo InSpace 3D/3D Fusion
- Possibility for hands-on model training:
  - Flow diverter, stent retriever, coils

Audience:
- Interventional neuroradiologists
- Neurosurgeons

Registration:
Please contact your local Siemens representative or Mrs. Larissa Heinrich: larissa.heinrich@siemens.com

Dates and language:
3 workshops per year, English

Scientific Director:
Prof. Dr. med. Arnd Dörfler
Department of Neuroradiology
University Hospital Erlangen

Participants:
max. 15 persons per course

Course fee:
1,190 EUR*
*This course is tax-exempt according to § 4 No.21 UStG (German VAT-law)
Interventional Radiology

Städtisches Klinikum Karlsruhe: The central institute of imaging diagnostics, “Zentralinstitut für Bildgebende Diagnostik (ZIBID)”, in the city hospital in Karlsruhe covers the whole scope from diagnostic radiology to interventional radiology, including pediatric radiology and neuroradiology. Their focus in interventional radiology is on the dilatation and stenting of vessels with the help of balloon catheters and stents, as well as the treatment of liver and lung tumors. Participants learn how to use the AXIOM Artis dMP in interventional radiology.

Audience:
- Radiologists
- Radiographers and technicians with a broad experience in angiography

Course content:
- Leg-pelvic angiography
- Carotid artery stenting
- Port implantation and explantation
- Chemoembolization
- Technetium angiography
- Selective Internal Radiation Therapy (SIRT)
- Transjugular intrahepatic portosystemic shunt (TIPSS)

Registration:
Please contact your local Siemens representative.

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Dates and language:
on request,
German or English

Organizer:
Städtisches Klinikum Karlsruhe GmbH
Zentralinstitut für Bildgebende Diagnostik
Moltkestraße 90
76133 Karlsruhe, Germany

Participants:
1–3 persons

Course fee:
on request
The Vivantes Klinikum am Urban, the institute of radiology and nuclear medicine, which uses an Artis zee multipurpose, has more than 12 specialized medical divisions and 586 beds. About 55,000 patients are treated here every year, 32,000 of which are outpatients with a further 23,000 in-patients. A medical staff of 178 doctors and 438 nurses take care of the patients’ well-being. The “Vivantes Klinikum am Urban” is one of the academic teaching hospitals of the Charité – Universitätsmedizin Berlin.

### Audience:
- Radiologists
- Radiographers and technicians with a broad experience in angiography

### Course content:
- The entire diagnostic arteriography and phlebography spectrum
- Multimodal vascular recanalizations (balloon angioplasty (PTA), stent implantation, local thrombolytic therapy, percutaneous thrombolytic and embolectomy) including local fibrinolysis with thrombolytic occlusions of the basic cerebral artery
- Implantation of venous port systems and other types of central venous access
- Complication management in the central venous systems
- Therapeutic embolizations in all extracranial and extraspinal areas, particularly for the treatment of acute bleeding, chemoembolization and the treatment of benign tumors (uterine myoma embolization)
- Percutaneous bile duct interventions
- Transjugular intrahepatic portosystemic shunt (TIPSS)
- Percutaneous insertion of feeding tubes (percutaneous gastrostomy)
- Port implantations

### Registration:
Please contact your local Siemens representative.
The Vivantes Klinikum im Friedrichshain, the institute of radiology and interventional therapy, which uses an Artis zee ceiling, has more than 17 specialized medical divisions and 687 beds. About 81,000 patients are treated here every year, 49,000 of which are out-patients with a further 32,000 in-patients. A medical staff of 288 doctors and 506 nurses take care of the patients’ well-being. Altogether the medical center employs 1,093 staff members. The “Vivantes Klinikum im Friedrichshain” is one of the academic teaching hospitals of the Charité – Universitätsmedizin Berlin.

**Audience:**
- Radiologists
- Radiographers and technicians with a broad experience in angiography

**Course content:**
- Angioplasty/stent implantations in all vascular regions (i.e. carotid, pelvis etc.)
- Treatment of aneurysms (intracranial, thoracic, abdominal)
- Embolization of vessel formations (intra- und extracranial)
- Embolization to prepare for surgery (embolization of the portal vein, tumor devascularization)
- Selective lysis procedures for the treatment of vascular occlusions
- Percutaneous dislodgement from the vascular system
- Permanent and temporary cava filter implantation
- Chemoembolization
- Gastro-intestinal interventions (TIPSS)
- Implantation of permanent and temporary venous accesses (i.e. portal vein catheter, dialysis catheter, PICC-line)

**Registration:**
Please contact your local Siemens representative.

**Dates and language:**
on request, German or English

**Organizer:**
Vivantes Klinikum im Friedrichshain
Landsberger Allee 49
10249 Berlin, Germany

**Participants:**
1–3 persons

**Course fee:**
on request
Interventional Radiology

System Application Training
AXIOM Artis, Artis zee and Dose Management E-Learnings

Language: English
Course fee: free of charge

AXIOM Artis and Artis zee
AXIOM Artis (Software VB 11, VB 22, VB 23, VB 30/31) / Artis zee (Software VC 12C or higher)
This E-Learning provides a general overview of the Artis product family, system variants, standard features and available options.

Course content:
Artis system basics, Artis system operation, syngo basics, advanced syngo features

Advanced Applications
AXIOM Advanced Applications for AXIOM Artis VB 30/31 and syngo X-Workplace VA 70/71/72 / Advanced Applications for Artis zee VC 12C or higher & syngo X-Workplace VB 11 or higher
This E-Learning introduces learners to the entire Advanced Applications features set. Learning objectives include Advanced Applications workflows and completion of post-processing using the syngo X-Workplace.

Course content (excerpt):
syngo DynaCT, syngo InSpace 3D, syngo iPilot, syngo IC3D, syngo InSpaceEP

Dose Management
This E-Learning introduces radiation Dose Management and also covers effects and risks of radiation, with a special focus on strategies for reducing exposure.

Course content:
Basics of radiation, X-ray generation, feedback system, applied dose effects, dose-saving measures

Audience:
• AXIOM Artis, Artis zee and syngo X-Workplace system users

Registration:
Go to “myTraining Login” at: www.siemens.com/AXIOM-E-Learning
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**PACS/RIS systems** are integrated both within routine clinical workflows and IT infrastructure. This five-day course provides learners with an overview of issues affecting clinical operations and IT which are required for managing a **syngo** workflow system. In addition to basic knowledge about daily operation, instruction is given on routine tasks. General topics such as Web-based administration of the **syngo** Workflow Server and troubleshooting are also covered. Administrators learn how to maintain and change configuration settings for the **syngo** Workflow client and ensure patient data consistency. Backups and database queries are run, the system status monitored, status messages interpreted and workstation installations carried out.

**Prerequisites:**
- Experience using **syngo** Workflow
- Familiarity with digitized clinical workflows
- Experience using the integrated PACS application
- Experience with MS Windows and networks, name resolution and PC-to-PC communication

**Course content:**
- General topics:
  - Description of functional principles and interfaces
  - Web-based server administration
  - First-level support and troubleshooting
  - User administration for voice recognition
- Clinical administration:
  - Ensuring data consistency for patient records
  - User administration in **syngo** Workflow
  - Statistical evaluations and Silent update mechanism
  - Overview of admin module
  - Typical administrator tasks
- IT administration:
  - Backup management and system status monitoring
  - Database validation and setting up workstation software

**Audience:**
- IT
- Clinical administrators

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**Dates and language:**
Mar 31 – Apr 04, 2014
English

**Organizer:**
Siemens Healthcare
Training Center
Allee am Röthelheimpark 3
91052 Erlangen, Germany

**Participants:**
4 – 12 persons

**Course fee:**
2,200 EUR*
*This course is tax-exempt according to § 4 No.21 UStG (German VAT-law)

**Course ID:**
SY8SWFLADM

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**Course content:**
- General topics:
  - Description of functional principles and interfaces
  - Web-based server administration
  - First-level support and troubleshooting
  - User administration for voice recognition
- Clinical administration:
  - Ensuring data consistency for patient records
  - User administration in **syngo** Workflow
  - Statistical evaluations and Silent update mechanism
  - Overview of admin module
  - Typical administrator tasks
- IT administration:
  - Backup management and system status monitoring
  - Database validation and setting up workstation software

**Audience:**
- IT
- Clinical administrators

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**Registration:**
To register, please go to:
www.siemens.com/healthcare-training-center
syngo.via* is a software product for high-quality visualization of 2D/3D/4D datasets which have been acquired using various modalities. The close integration between syngo.via and the imaging modalities makes the review of datasets a part of your clinical routine. The server/client-based product allows datasets to be accessed for various modalities and provides users with modality- and disease-related viewing workflows. After attending this two-day course, participants will be familiar with the workflow and implementation concept of syngo.via. Practical exercises such as the use of the Service User Interface and completing administrative tasks round off the course syllabus. In addition, basic first level support questions are covered.

To prepare for this course, the E-Learning “syngo.via IT Administrator Training” is recommended. This E-Learning covers IT basics and gives learners a general introduction to clinical workflows.

**Audience:**
- IT Administrators or employees who are responsible for local user management, regular maintenance tasks and first level service support

**Course content:**
- System overview and software topology
- IHE, infrastructure and function view
- Installing the client software
- System and workflow configuration
- Introduction of the Service User Interface
- Introduction of troubleshooting tools

**Registration:**
To register, please go to: www.siemens.com/healthcare-training-center

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*syngo.via can be used as a standalone device or together with a variety of syngo.via-based software options, which are medical devices in their own right.
This one-day syngo.via Imaging Basic workshop will provide basic server-client knowledge with the objective to train you as a clinical administrator or key user who intends to provide theoretical and practical training to other colleagues across all modalities. There will be several client-server based demo consoles to get acquainted with basic configuration options, different roles and the new user interface. Workflow assignment and the basic workflow with its new application in 2D/3D imaging will also be covered. As a key user or clinical administrator, you will be able to create your own and your colleagues’ dedicated workflow and gain a cross modality overview of syngo.via.

Prerequisites:
- Basic IT and DICOM skills, clinical workflow and basic 2D/3D imaging skills

Audience:
- Key users (RT/MTRAs, physicians)
- Clinical administrators (RT/MTRAs, physicians, medical technicians)

Course content:
- syngo.via concept – implementation and workflow management
- RIS-PACS integration models
- Hardware
- Image call up, advanced search, roles
- Basic workflow and workflow assignment
- UI and basic 2D/3D imaging on basic workflows

Registration:
To register, please go to: www.siemens.at/MEDtraining

*syngo.via can be used as a standalone device or together with a variety of syngo.via-based software options, which are medical devices in their own right.

*submitted
Participants in this six-day course learn how *syngo.plaza* is integrated within a healthcare network, what configuration options (clinical and technical) are available and how to service the system technically. After completing the course, participants will have a basic knowledge of how to provide users with first-level support. The cross-functional course content gives participants a holistic view of *syngo.plaza*.

**Prerequisites:**
- Good basic knowledge in anatomy, cross sectional imaging and DICOM
- Good understanding of clinical workflows and basic IT
- Should be familiar with Microsoft Windows administration functions

**Course content:**
- *syngo.plaza* system overview, using the program and interfaces
- Demonstration and exercises:
  - Patient browser: filter functions, send, query, manual worklist
  - Patient viewer: 2D image processing, individual layouts
  - Virtual filmsheet
  - MWL scheduler
  - Embedded 3D overview
- Administration and first-level service:
  - Backup and user management
  - Audit management
  - Central system configuration (e.g. DICOM nodes)
  - Configuration tool (e.g. License handling)
  - Message handling and first-level trouble-shooting

**Audience:**
- *syngo.plaza* key users (radiologists and MTRAs)
- System administrators

**Dates and language:**
- Feb 05–12, 2014 English
- May 07–14, 2014 English

**Organizer:**
Siemens Healthcare Training Center
Allee am Röthelheimpark 3
91052 Erlangen, Germany

**Participants:**
10 persons maximum

**Course fee:**
2,520 EUR*
*This course is tax-exempt according to § 4 No.21 UStG (German VAT-law)

**Course ID:**
SY8PLAZAAP
i.s.h.med basis I is the proven foundation for smooth communication, documentation and planning in hospitals. From anamnesis to findings right through to the discharge summary, this module provides all forms of patient-related documentation and clearly displays it in the patient’s electronic record. The Clinical Workplace allows physicians and nursing staff to precisely control and oversee patient treatment. This three-day course provides participants with a detailed overview of the i.s.h.med features set. Practical exercises familiarizing learners with the user interface and system configuration round off the course contents.

Prerequisites:
- Basic skills in customizing SAP Patient Management Basis data

Audience:
- Users, consultants and administrators in clinical departments

Course content:
- Clinical workstation with service management and clinical order management as well as medical/nursing documentation

Dates and language:
Jan 13–15, 2014 German

Organizer:
Siemens Healthcare
Siemensdamm 50
13629 Berlin, Germany

Participants:
6–8 persons

Course fee:
1,725 EUR*
*This course is tax-exempt according to § 4 No.21 UStG (German VAT-law)

Course ID:
HS8GSD001

Registration:
To register, please go to:
www.siemens.com/healthcare-training-center
This two-day course introduces the scheduling and planning management modules and trains participants to fully and effectively use i.s.h.med basis. Alongside dedicated introductions and explanations of the functions, participants will be offered the opportunity to set up and operate functions on their own in hands-on exercises.

**Prerequisites:**
- Basic experience customizing SAP Patient Management for Healthcare Basis data
- Completion of the i.s.h.med basis I course

**Audience:**
- Users, consultants and administrators in clinical departments

**Course content:**
- Scheduling for medicine and nursing

**Registration:**
To register, please go to: www.siemens.com/healthcare-training-center

**Dates and language:**
Jan 16–17, 2014 German

**Organizer:**
Siemens Healthcare
Siemensdamm 50
13629 Berlin, Germany

**Participants:**
6 – 8 persons

**Course fee:**
1,140 EUR*
*This course is tax-exempt according to § 4 No.21 UStG (German VAT-law)

**Course ID:**
HS8GSD028
The surgery module i.s.h.med surgery facilitates organization and documentation of a hospital’s surgery department. The planning functions make it possible to optimize the complex process of surgery planning. All information in the patient’s electronic record can be accessed directly. In addition to an overview of current surgical processes, the two-day course introduces participants to the functional scope of i.s.h.med surgery. Practical exercises on module configuration give participants the opportunity to apply what they have learned.

**Prerequisites:**
- Completion of the i.s.h.med basis I and i.s.h.med basis II courses or similar knowledge

**Audience:**
- Users and system administrators from clinical departments

**Course content:**
- Clinical requirements
- Surgery documentation, planning and overview

**Registration:**
To register, please go to: www.siemens.com/healthcare-training-center
As an institution-wide production planning and control system, the i.s.h.med documentation workstation for hospital wards, operating theaters and radiology maps routine clinical scenarios. All required processes are already pre-configured and contain default data for task processing. This allows clinical processes to be more effectively administered and coordinated than ever before. Practical exercises give participants an overview of the patient record appropriate for a given situation, allowing participants to learn how to handle respective tasks based on predefined user profiles.

**Prerequisites:**
- Completion of the i.s.h.med basis I course

**Audience:**
- Users, consultants and administrators in clinical departments

**Course content:**
- Setting up and using a documentation workstation based on the hospital ward (care unit) workstation using an Emergency Department Tracking Board and operating room workstation

**Registration:**
To register, please go to: www.siemens.com/healthcare-training-center

**Dates and language:**
Jan 20, 2014 German

**Organizer:**
Siemens Healthcare
Siemensdamm 50
13629 Berlin, Germany

**Participants:**
6 – 8 persons

**Course fee:**
693 EUR*
*This course is tax-exempt according to § 4 No.21 UStG (German VAT-law)

**Course ID:**
HS8GSD029
i.s.h.med is an integrated clinical workplace system for SAP which ensures smooth communication between departments and those providing services. The system’s parameterizable medical documentation (PMD) allows a wide range of documents to be prepared (e.g. findings, medical histories, discharge summaries). This two-day course introduces learners to the PMD concept and teaches them to generate hard-copy printouts of required documents.

**Prerequisites:**
- Completion of the i.s.h.med basis I course or similar knowledge

**Audience:**
- System administrators
- i.s.h.med key users
- Clinical IT consultants

**Course content:**
- Development of individual Doctypes including screens and prints
- Integration of Doctypes in the context of the application
- Work with PMD Transport Workbench

**Dates and language:**
Mar 17–18, 2014 German

**Organizer:**
Siemens Healthcare
Siemensdamm 50
13629 Berlin, Germany

**Participants:**
6–8 persons

**Course fee:**
1,140 EUR*
*This course is tax-exempt according to § 4 No.21 UStG (German VAT-law)

**Course ID:**
HS8GSD004

**Registration:**
To register, please go to:
www.siemens.com/healthcare-training-center
i.s.h.med Delta Training
Release EHP6 (6.07)

i.s.h.med is an integrated clinical workplace system for SAP for Healthcare. i.s.h.med ensures smooth communication between departments and those providing services. Based on the SAP enterprise resource planning system, i.s.h.med offers all medical functions commonly found in clinical settings. This two-day course is designed for users who are upgrading i.s.h.med system to ERP 2005 (6.04). New and modified functions are reviewed and participants are walked through the steps required for completing the upgrade.

**Prerequisites:**
- Good knowledge in the use and customizing of version 6.04, 6.05 or 6.06

**Audience:**
- System administrators
- i.s.h.med key users
- Clinical IT consultants
- Holders of i.s.h.med Certificate

**Course content:**
- New or modified function and implementation steps required for migrating the i.s.h.med system to the EHP6 (6.07) release version

**Registration:**
To register, please go to: www.siemens.com/healthcare-training-center

**Dates and language:**
on request, German

**Organizer:**
Siemens Healthcare
Siemensdamm 50
13629 Berlin, Germany

**Participants:**
6 – 8 persons

**Course fee:**
1,140 EUR*
*This course is tax-exempt according to § 4 No. 21 UStG (German VAT-law)

**Course ID:**
HS8GSD005
i.s.h.med is an integrated clinical workstation system for SAP for Healthcare. i.s.h.med ensures smooth communication between departments and those providing services. Based on the SAP enterprise resource planning system, i.s.h.med offers all medical functions commonly found in clinical settings. This four-day course refreshes i.s.h.med skills and includes exercises in preparation for the certificate examination.

**Prerequisites:**
- Basic knowledge and practical experience in setting up and managing i.s.h.med

**Audience:**
- i.s.h.med key users
- i.s.h.med system
- User support staff

**Course content:**
- Refresher training on setting up and using i.s.h.med basis, PMDs, and the documentation workstation, including practical exercises

**Registration:**
To register, please go to:
www.siemens.com/healthcare-training-center
One day certification for i.s.h.med consultants. All relevant examinations necessary for the qualification of an i.s.h.med consultant are carried out. The examinations include: Case studies on the system, multiple choice tests and project presentations.

Prerequisites:
- In-depth knowledge of i.s.h.med basis, PMDs and the documentation workstation regarding use and setup
- Independent experience in implementing introduction projects with i.s.h.med

Audience:
- i.s.h.med key users
- i.s.h.med system
- User support staff

Course content:
- Examination in various levels for the certification
- Certificate upon successful examination

Registration:
To register, please go to:
www.siemens.com/healthcare-training-center
SAP Patient Management for Healthcare (formerly called SAP IS-H) supports patient management, medical and nursing documentation, patient billing and administration of all hospital patient data. Medical and nursing documentation as well as billing are included – both for inpatient as well as combined with SAP ACM (SAP Ambulatory Care Management) for outpatient requirements. SAP Patient Management for Healthcare also includes the integration within Financial Accounting, Controlling and Materials Management. These components allow evaluation of patient and hospital data for internal and external use and ensure smooth electronic communication between hospitals and healthcare insurers. This five-day course introduces participants to the patient billing process. Creation of sample billing settlements gives participants the chance to practice what they learned in a realistic scenario. The course is based on Release ERP 2005 (6.0) and on the Germany country version.

Audience:
- System administrators and SAP key users of SAP Patient Management for Healthcare

Course content:
- SAP Patient Management for Healthcare Basis data
- Patient and case processing
- Documentation including DRG (diagnosis-related groups) processing
- Clinical Workstation
- Service performance entry, coverage processing and billing
- Integration within Financial Accounting, Controlling and Materials Management
- Customizing functions for patient management and billing

Registration:
To register, please go to: www.siemens.com/healthcare-training-center
Molecular Imaging
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<th>Course Type</th>
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<th>Administration</th>
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The learning objective for this three-day course is the solid operational knowledge of MI applications using the MI Application Workstation. This includes the introduction of how to acquire, process and display patient data. Practical implementation and a deeper operational knowledge are reinforced by hands-on application routines.

This course is designed for SPECT and SPECT-CT system users with no or minor experience with the MI APPS software.

Prerequisites:
- PC-basic knowledge

Audience:
- MI APPS system user

Course content:
- Overview MI APPS user interface
- Basic principles of the workflow structure
- Introduction how to acquire, process and display patient data
- Hands-on exercises

Registration:
To register, please go to: www.siemens.com/healthcare-training-center
This four-day course provides participants with advice and hints for customizing SPECT system workflows to meet customer requirements. Participants gain extensive knowledge about creating and fine-tuning workflows and flexible displays. Many hands-on exercises give learners the opportunity to design, process and save various types of workflows. Basic image fusion exercises round off the topics covered in the course.

**Prerequisites:**
- At least three months working experience with MI APPS user interface

**Audience:**
- SPECT and/or SPECT-CT system user

**Course content:**
- Modification of the MI Application user interface e.g. creating new workflow categories, filter, saving workflow templates
- Configuration of the activity Data Selector
- Series Arithmetic
- Image Fusion
- Troubleshooting
- Intensive hands-on training:
  - Designing workflows
  - Creating flexible displays

**Dates and language:**
Feb 04–07, 2014 English
Mar 18–21, 2014 German

**Organizer:**
Imaging Science Institute
University Hospital Erlangen
Ulmenweg 18
91054 Erlangen, Germany

**Participants:**
4–6 persons

**Course fee:**
1,680 EUR*
*This course is tax-exempt according to § 4 No.21 UStG (German VAT-law)

**Course ID:**
MI8MIAPPS2

**Registration:**
To register, please go to:
www.siemens.com/healthcare-training-center

**CME CREDITS:**
40

*submitted
This five-day training course introduces learners to the principles of operating SPECT-CT using a Symbia® system. At the end of the course, participants perform various SPECT-CT examinations using different energy windows. In addition, course work includes practical exercises on modifying and generating acquisition and evaluation workflows.

**Prerequisites:**
- At least three months working experience with MI APPS user interface

**Audience:**
- SPECT-CT system user

**Course content:**
- Operating a SPECT-CT system
- SPECT-CT safety considerations demonstrated on a Symbia system
- SPECT-CT acquisition, evaluation and display
- CT attenuation correction
- Scatter radiation correction
- Modification of SPECT-CT acquisition and evaluation workflow
- Image fusion
- Daily quality assurance
- Troubleshooting

**Dates and language:**
Jun 30 – Jul 04, 2014 English

**Organizer:**
Imaging Science Institute
University Hospital Erlangen
Ulmenweg 18
91054 Erlangen, Germany

**Participants:**
4 – 6 persons

**Course fee:**
1,800 EUR*
*This course is tax-exempt according to § 4 No. 21 UStG (German VAT-law)

**Course ID:**
MI8SYMBIA

**Registration:**
To register, please go to:
www.siemens.com/healthcare-training-center
Single-photon emission computed tomography (SPECT) and positron emission tomography (PET) are established imaging procedures in conventional and differential diagnosis of neuro-degenerative illnesses. Coursework focuses on the use of FP-CIT-SPECT, with review of IBZM and perfusion SPECT as supplementary methods. The course covers the theoretical principles underlying various imaging modalities available for diagnosis of the most clinically significant neurodegenerative disorders and their targeted and methodologically appropriate use. Practical considerations in the correct acquisition, evaluation and interpretation of imaging data are also covered, including training on camera systems and evaluation workstations.

**Workshop instructor:**
Prof. Dr. Dr. Philipp Meyer, Attending Physician of the Department of Nuclear Medicine at the Freiburg University Hospital

Note: Course participants may make prior arrangements to bring their own examination data (DICOM format).

**Audience:**
- Physicians specializing in nuclear medicine
- Experienced MTRAs

**Course content:**
- Introduction to the most important neurodegenerative disorders (motor disorders and dementias)
- Fundamentals of brain SPECT acquisition/reconstruction
- Quantitative evaluation of cerebral SPECT examinations (ROI analysis)
- Creation of parametric SPECT images towards optimized evaluation and presentation
- Supplementary voxel-based statistical analyses of perfusion SPECT and glucose metabolism PET
- Hands-on training on camera systems and evaluation workstations and clinical case studies

**Registration:**
To register, please go to: www.siemens.com/healthcare-training-center

**Dates and language:**
on request, German

**Organizer:**
Imaging Science Institute
University Hospital Erlangen
Ulmenweg 18
91054 Erlangen, Germany

**Participants:**
6 – 10 persons

**Course fee:**
420 EUR*

*This course is tax-exempt according to § 4 No.21 UStG (German VAT-law)

**Course ID:**
MIBNEURO

10 CME CREDITS*

*submitted
Myocardial perfusion SPECT has established itself as a valuable procedure for primary diagnosis and for determining the severity of coronary heart disease. Training is given so that participants are able to independently complete such routine work as the quantification of myocardial perfusion and the evaluation of gated SPECT data.

**Workshop instructor:**
Prof. Dr. Dr. Wolfgang Schäfer,
Head of Department of Nuclear Medicine,
Maria Hilf Clinics Mönchengladbach, Germany

**Prerequisites:**
- Experience working in quantitative coronary evaluation

**Audience:**
- Specialist physicians for nuclear medicine and
- Experienced MTRAs

**Course content:**
- Fundamentals of myocardial perfusion SPECT
- Acquisition and reconstruction protocols
- Evaluation and display of myocardial perfusion SPECT with 4D-MSPECT
- Clinical case studies/prognostic value of the diagnostic findings

- Fundamentals of gated SPECT
- Evaluation and display of gated SPECT with 4D-MSPECT
- Value of highlighted parameters (EDV, ESV, LEVF, regional wall motion)
- Clinical case studies
- Hands-on workshops

**Registration:**
To register, please go to: www.siemens.com/healthcare-training-center
The objective of this two-day course is to introduce participants to the basic workstation operations such as patient data management (registration/archiving/data transfer), including hands-on exercises on data post-processing. The course also includes theoretical introductions into PET imaging and multislice CT scanning technology. For further practical system related information please see the PET-CT Imaging II course (course ID: MI8MCT, p. 70)

**Audience:**
- MTRAs
- Physicians and physicists

**Course content:**
- Intensive user interface training
- Introduction to data post-processing, such as 2D and 3D, MIP and MPR
- Working in a network environment
- Introduction to PET Imaging technology
- Introduction to multislice CT scanning technology

**Registration:**
To register, please go to:
www.siemens.com/healthcare-training-center
This three-day course gives learners intensive training in PET-CT hybrid system concepts using a Biograph mCT System. The course enables participants to carry out routine daily tasks, such as quality assurance, image acquisition and processing. Numerous practical exercises are included in the course.

Note: Those interested in intensive multislice CT training are asked to sign up for an appropriate CT course (see course ID: CT8REFRESH, p. 8).

Prerequisites:
- Experience with the syngo user interface
- Basic PET and CT knowledge (course PET-CT Imaging I, course ID: MI8PETSYN, p. 69)

Course content:
- PET-CT operation and safety considerations
- Overview of workstation functions
- Completing PET and PET-CT acquisitions
- PET and PET-CT evaluation and display (TrueD application)
- Quality assurance
- Hands-on exercises
- Troubleshooting

Audience:
- MTRAs
- Physicians and physicists

Registration:
To register, please go to: www.siemens.com/healthcare-training-center
Within this three-day course you will get a deep knowledge about PET-CT image quality. As well you will learn more about the cross sectional anatomy and the usage of contrast media. A lot of hands-on exercises regarding List Mode Acquisition and Processing are also included. In addition you get information about basic processing of cardiac data and postprocessing of respiratory data.

Prerequisites:
- Experience with Biograph mCT systems

Audience:
- MTRAs
- Physicians and physicists

Course content:
- CT image quality
- PET image quality
- Cross sectional anatomy of the chest, abdomen and pelvis
- Contrast agents and procedures
- Theory of list mode acquisition and processing
- Basic processing of cardiac gated data
- Processing of respiratory gated data

Registration:
To register, please go to:
www.siemens.com/healthcare-training-center
PET-CT Imaging with *syngo* and *syngo*.via Workshop

This one-day intensive course on the use of PET-CT in oncology gives special emphasis to areas such as physical condition, clinical significance, preparation of tracers, workflow PET-CT and study protocols. The workshop also covers patient preparation, examination planning as well as implementation and user interface functions of the True D software. Data analysis, finding content and workflow concepts are treated separately. Course participants can also visit the Biograph 64 at Vienna General Hospital's Center for Diagnostic Imaging. Using state-of-the-art *syngo* MultiModality workstations and *syngo*.via server-client based workplaces, participants can expand their knowledge and practice what they have learned in groups of no more than 12 people.

**Prerequisites:**
- Basic knowledge of MD-CT and Nuclear Medicine (PET)
- General familiarity using the *syngo* user interface and image postprocessing

**Audience:**
- Radiologists
- Nuclear physicians
- RT/MTRAs with advanced knowledge of PET/CT

**Course content:**
- Physical prerequisites
- Basics of PET-CT Tracer
- Study strategies and workflow PET-CT
- Clinical benefits of oncology and cardiology
- Case studies
- Presentation and training of the *syngo* TrueD Taskcard and MI-workflows on *syngo*.via
- Hands-on trainings in small groups

**Registration:**
To register, please go to: www.siemens.at/MEDtraining

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**Dates and language:**
Please see: www.siemens.at/MEDtraining

**Organizer:**
Medical University of Vienna
Department of Radiology
Währinger Gürtel 18-20
1090 Vienna, Austria

**Participants:**
5–12 persons

**Course fee:**
550 EUR incl. VAT
This three-day course is designed for operators of Eclipse RD, HP, and ST cyclotron systems, with a focus on F-18 production. It covers the safe and efficient day-to-day operation of the Eclipse system for normal clinical and production pharmacy use. The training includes safety instructions applicable to operations, a simplified theory-of-operation, and intensive, supervised hands-on experience with computer simulators and operating the Eclipse cyclotron.

**Prerequisites:**
Students must be trained and badged as Radiation Workers, and have ES&H training appropriate for the work. Students should have a basic grasp of pharmacy operations and routine as well as the basic physics of the atom prior to attending this class.

**Audience:**
- PETNET pharmacy staff who will be operating the Eclipse as part of their duties
- Customers who wish to enroll members of their pharmacy staff

**Course content:**
- Covering the safe and efficient operation of the Eclipse systems for normal pharmacy operations (This training does not cover installation of the Eclipse cyclotron, nor does it cover PET tracer chemistry units.)

**Dates and language:**
Feb 17–19, 2014 English
Mar 26–28, 2014 English
May 21–23, 2014 English

**Organizer:**
Siemens Molecular Imaging
810 Innovation Drive
Knoxville, TN 37932 USA

**Participants:**
3–6 persons

**Course fee:**
5,400 USD incl. VAT

**Course ID:**
M8ECLIPS

**Registration:**
To register, please go to:
www.siemens.com/healthcare-training-center
This two-and-a-half-day course introduces learners to the CT portion of the Inveon MultiModality scanner. Participants set up and perform CT data acquisition and reconstructions, define CT workflow protocols, and carry out basic CT data analysis using the Inveon Acquisition Workplace (IAW) software. Participants also use the Inveon Research Workplace (IRW) software for data analysis and for combining PET or SPECT data.

**Course content:**
- Scanning start-up and shutdown
- Performing scan and reconstructions
- Using AsiPro to view images
- Explaining purpose of light/dark scans and center offset calibration
- Performing multibed position scanning
- Performing Hounsfield calibration
- Explaining how data collection gating works
- Acquiring and determining transformation matrix with PET
- Explaining and performing attenuation correction scans
- Performing fluoroscopy scans
- Performing high resolution scans and identifying key parameters affecting image quality
- Combining CT and PET scans using IRW software

**Dates and language:**
on request, English

**Organizer:**
Siemens Healthcare
Training and Development Center
209 Gregson Drive
27511-6495 Cary, NC, USA

**Participants:**
3–6 persons

**Course fee:**
1,163 USD incl. VAT

**Course ID:**
MI8MINCT

Audience:
- Inveon MultiModality CT scanner end users

Registration:
To register, please go to:
www.siemens.com/healthcare-training-center
This two-and-a-half-day course introduces learners to the PET portion of the Inveon MultiModality scanner or the DPET scanner. Participants set up and perform PET data acquisition and reconstructions, define PET workflow protocols, and carry out basic PET data analysis using the Inveon Acquisition Workplace (IAW) software. Participants also use the Inveon Research Workplace (IRW) software for data analysis, including calculation of activity uptake curves.

**Audience:**
- Inveon MultiModality PET or DPET scanner end users

**Course content:**
- Scanner start-up and shutdown
- Performing emission scan and reconstruct images
- Performing daily quality assurance scans
- Using AsiPro to view images
- Explaining the purpose of histogramming of data and available methods
- Explaining the different reconstruction algorithms
- Explaining how data collection gating works
- Explaining data corrections and normalizations
- DPET: Acquiring transmission and blank scans
- DPET: Attenuation scan capture
- DPET: Performing continuous bed scan

- Explaining and carrying out quantification calibration
- Displaying and processing images using IRW software
- Display of standard uptake value graphs

**Registration:**
To register, please go to: www.siemens.com/healthcare-training-center

**Dates and language:**
on request, English

**Organizer:**
Siemens Healthcare Training and Development Center
209 Gregson Drive
27511-6495 Cary, NC, USA

**Participants:**
3–6 persons

**Course fee:**
3,750 USD incl. VAT

**Course ID:**
MI8MMINPET
This two-and-a-half day course introduces learners to the SPECT portion of the Inveon MultiModality scanner. Participants set up and perform SPECT data acquisition and reconstructions, define SPECT workflow protocols, and carry out basic SPECT data analysis using the Inveon Acquisition Workplace (IAW) software. Participants will also use the Inveon Research Workplace (IRW) software for data analysis, including calculation of activity uptake curves and combination with CT scans.

**Course content:**
- Scanner start-up and shutdown
- Performing scan and reconstruct images
- Explaining the purpose of collimators and application scenarios for various collimator types
- Exchanging collimators on the scanner
- Explaining how data collection gating works
- Explaining the difference between planar and dynamic scanning and performing them
- Performing normalization scans
- Explaining how multiple isotope scanning can be performed
- Performing detector calibration
- Acquiring and determining the transformation matrix with a CT
- Combining CT and SPECT scans using the IRW software

**Dates and language:**
on request, English

**Organizer:**
Siemens Healthcare
Training and Development Center
209 Gregson Drive
27511-6495 Cary, NC, USA

**Participants:**
3–6 persons

**Course fee:**
3,750 USD incl. VAT

**Course ID:**
MI8MMINSPE

**Audience:**
- End users of Inveon MultiModality SPECT scanner

**Registration:**
To register, please go to:
www.siemens.com/healthcare-training-center
This one-day course provides an in-depth description of the Inveon Research Workplace (IRW) software. Participants will examine the different software options available, including parametric maps for activity uptake as well as 3D segmentation and surface rendering.

**Prerequisites:**
- At least six months of experience working with IRW systems

**Audience:**
- Inveon Research Workplace (IRW) software end users

**Course content:**
- Setting up multiple databases for storing images
- Defining and modifying regions of interest (ROI) using various procedures
- Displaying multiple ROIs with varying appearances
- Explanation of various parametric models and displaying them graphically
- Fusing datasets from multiple modalities
- Performing segmentation and surface rendering on a 3D soft tissue dataset and a 3D bone dataset

**Registration:**
To register, please go to: www.siemens.com/healthcare-training-center
MR Tomography
<table>
<thead>
<tr>
<th>Course Description</th>
<th>MT(R)A</th>
<th>Physicians</th>
<th>Administration</th>
<th>IT</th>
<th>Basic Skills</th>
<th>In-depth Skills</th>
<th>Course Type</th>
<th>Page</th>
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<tbody>
<tr>
<td>MRI – Neuro and MSK</td>
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<td>MRI – Body</td>
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<td>Cardiac Imaging in MRI</td>
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<td>Advanced MRI for Angiography</td>
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<td>MR Neuroradiological and musculoskeletal Imaging</td>
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<tr>
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</tr>
</tbody>
</table>
This three-day MRI intensive course provides participants with the opportunity to expand and increase their knowledge regarding neurological and musculoskeletal (MSK) MRI imaging techniques. Combining lectures and interactive hands-on practical sessions using Siemens Tim technology, participants will gain a better understanding of sequence parameter settings, adaptation and optimisation, and the impact on scan time and image quality for specific examination protocols used in their daily routine. With focus on practical exercises and clinical relevance, this course provides participants with valuable information they will be able to incorporate into their day-to-day routine. This course is one of two independent course modules. The second module focuses on abdominal and angiography MR imaging techniques, p. 81.

Prerequisites:
- A basic understanding of MR principles
- One year of MRI experience are mandatory

Course content:
- Review physical principles of MRI
- Safety aspects regarding MR equipment
- General sequences and workflows used for brain imaging
- Advanced Neuro imaging: Diffusion, Perfusion, SWI.
- Musculoskeletal MRI
- Image quality: recognizing and avoiding artifacts
This three-day MRI intensive course provides participants with the opportunity to expand and increase their knowledge regarding body and angiographic MRI imaging techniques. Combining lectures and interactive hands-on practical sessions using Siemens Tim technology, participants will gain a better understanding of sequence parameter settings, adaptation and optimisation, and the impact on scan time and image quality for specific examination protocols used in their daily routine. With focus on practical exercises and clinical relevance, this course provides participants with valuable information they will be able to incorporate into their day-to-day routine. This course is one of two independent course modules. The second module focuses on neurological and musculoskeletal MR imaging techniques, p. 80.

**Prerequisites:**
- A basic understanding of MR principles
- One year of MRI experience are mandatory

**Course content:**
- Review physical principles of MRI
- Safety aspects regarding MR equipment
- MRI sequences and parameters for fast imaging
- Parallel imaging techniques
- Abdominal imaging and strategies for motion reduction (breath-hold, respiratory triggering etc.)
- Image quality in body imaging: avoiding artifacts
- Contrast agents in MRI
- MR angiography: non-contrast and contrast enhanced techniques
- Recognizing and classifying common pathologies in body imaging
- Specific adaptations of examination protocols

**Audience:**
- Physicians and MTRAs

**Dates and language:**
Feb 06–08, 2014 German
May 19–21, 2014 German

**Organizer:**
Imaging Science Institute
University Hospital Erlangen
Ulmenweg 18
91054 Erlangen, Germany

**Participants:**
6 – 8 persons

**Course fee:**
1,170 EUR*
*This course is tax-exempt according to § 4 No.21 UStG (German VAT-law)

**Course ID:**
MR8APINT2

**Registration:** To register, please go to: www.siemens.com/healthcare-training-center

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**MR Tomography**

**MRI – Body**

**Intensive Course**
In recent years, cardiac MRI has evolved into a key procedure in diagnostic and functional cardiac imaging. These imaging procedures are proven and reliable predictive techniques for diagnosing a wide range of cardiovascular pathologies. The objective of this course is to give users more confidence as they carry out MRI cardiac examinations. Under the expert direction of the University Hospital Erlangen and Siemens Healthcare, participants have the opportunity to exercise cardiac measurements on volunteers and to observe examinations on real patients in clinical settings.

**Workshop Instructor:**
PD Dr. Rolf Janka, Radiological Institute of the University Hospital Erlangen

**Course Content:**
- Fundamentals of MRI physics
- MRI anatomy of the cardiovascular system
- Examination techniques and evaluation strategies for cardiac MRI
- Protocol optimization for cardiac MRI examinations
- Functional cardiac imaging
- Practical training on different MRI systems using clinical cases

**Dates and Language:**
Apr 24–26, 2014 German

**Organizer:**
Imaging Science Institute
University Hospital Erlangen
Ulmenweg 18
91054 Erlangen, Germany

**Participants:**
6–12 persons

**Course Fee:**
1,260 EUR*
*This course is tax-exempt according to § 4 No. 21 UStG (German VAT-law)

**Course ID:**
MR8ADV_CARD

**Audience:**
- MTRAs with advanced knowledge in MRI
- Radiologists
- Cardiologists

**Registration:**
To register, please go to:
www.siemens.com/healthcare-training-center
In recent years, magnetic resonance imaging of the human vascular system has become one of the most important procedures in the portfolio of diagnostic applications for assessing vascular pathologies and anomalies. A key component of this two-day workshop course is hands-on training in small work groups on the most advanced MRI and image post-processing systems. The training enables participants to adjust and apply the sequences required for day-to-day work. Joint work is carried out in data acquisition and completing the appropriate post-processing on real case studies.

**Workshop instructor:**
PD Dr. Michael Lell, Attending Physician at the Radiological Institute, University Hospital Erlangen

**Audience:**
- Radiologists
- Angiologists and Cardiologists
- Vascular surgeons
- Experienced MTRAs and training facilitators

**Course content:**
- MRI angiography methodology
- Acquisition and reconstruction protocols
- Value of findings
- Factors affecting image quality: recognizing and avoiding artifacts
- Principles and application areas for Time of Flight
- Phase contrast and contrast media-enhanced angiography
- Timing of angiography enhanced by contrast media
- Parallel imaging: concept and application areas
- Clinical case studies
- Hands-on training

**Dates and language:**
on request, English

**Organizer:**
Imaging Science Institute
University Hospital Erlangen
Ulmenweg 18
91054 Erlangen, Germany

**Participants:**
6 – 12 persons

**Course fee:**
840 EUR*
*This course is tax-exempt according to § 4 No.21 UStG (German VAT-law)

**Course ID:**
MR8ADVANG

**Registration:**
To register, please go to:
www.siemens.com/healthcare-training-center

**CME CREDITS**
20

*submitted
These two one-day intensive courses on MRI scanners in neuroradiological and musculoskeletal diagnosis cover topics such as physical prerequisites, predictive clinical value and examination protocols as well as commonly used standard evaluations. The course is designed for participants who wish to refresh their existing basic knowledge, extend their knowledge and enhance their skills through hands-on instruction. Basic knowledge about MRI and experience with operating the syngo and syngo.via user interface and image post-processing are useful.

**Audience:**
- Radiologists, RT/MTRAs with advanced knowledge of MRI

**Course content:**
- Overview of high-field safety precautions
- Performing an MRI examination: patient preparation, introduction to the user interface, hands-on training on 3T device
- Standard evaluations: spectroscopy, perfusion/diffusion tensor including hands-on units on the syngo Multimodality Workplace

**Module 1: Neuroimaging**
- Protocols for multimodal tumor imaging and disorders of white substance

**Module 2: Musculoskeletal imaging**
- Protocols for examining joints and the spine as well as advanced techniques for biochemical imaging, et al.
- Lectures on key topics

**Registration:**
To register, please go to: www.siemens.at/MEDtraining

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**Dates and language:**
Please see: www.siemens.at/MEDtraining

**Organizer:**
Medical University of Vienna
Department of Radiology
Währinger Gürtel 18-20
1090 Vienna, Austria

**Participants:**
5–12 persons

**Course fee:**
550 EUR incl. VAT per module

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MR Neuroradiological and musculoskeletal Imaging
Intensive Course with syngo and syngo.via

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**Course type**
- **MT(R)A Physicists:**
  - Administration
  - IT
  - Basic skills
  - In-depth skills
  - Course type
- **Module 1:** Neuroimaging
- **Module 2:** Musculoskeletal imaging

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**DFP CREDITS**
*submitted*
The workshop consists of scientific lectures and syngo user interface presentations, including hands-on units in three independent modules. The course is given in state-of-the-art seminar rooms equipped with syngo Multi Modality workstations and syngo.via server-client based workplaces. Small groups with no more than ten participants ensure optimal learning results. Learners who attend this workshop can focus intensively on new techniques and actively share their experience without being distracted by daily work.

Course duration:
Pancreas workshop: 1 day
Liver and Biliary Tract workshop: 1 day
Gastrointestinal Tract workshop: 1 day

Course content:
- Choosing CT versus MRI
- Examination protocols, contrast media, image quality
- Benefits of advanced sequences (diffusion, spectroscopy)
- Diagnosis of various pancreatic diseases
- Correct interpretation of clinical condition based on radiological findings
- Presentation and training with syngo Taskcards and syngo.via workflows
- Workstation training in small groups

Audience:
- Radiologists and radiologists in training
- RT/MTRAs with broad experience in abdominal imaging

Registration:
To register, please go to: www.siemens.at/MEDtraining

Dates and language: Please see: www.siemens.at/MEDtraining

Organizer:
Medical University of Vienna
Department of Radiology
Währinger Gürtel 18-20
1090 Vienna, Austria

Participants:
5–12 persons

Course fee:
550 EUR incl. VAT per module

8 DFP CREDITS*
This one-day syngo.via Imaging Workshop in Magnetic Resonance Tomography will provide syngo.via user with advanced MR workflow knowledge, evaluation and documentation principles in theoretical and practical training sessions on server-client based demo consoles. There will be as well an update to recent software version changes to get acquainted with news on basic configuration options, different roles and the user interface. The main topic of the course is to assure advanced visualization knowledge in MR Imaging throughout all MR-Engines.

Prerequisites:
- Basic IT and DICOM skills, clinical workflow and basic 2D/3D imaging skills are mandatory (see separate self-test in course details)

Course content:
- "State of the art"
- MR Vascular
- MR Cardiac
- MM Oncology
- MR Prostata
- MR Breast
- MR Neuroperfusion
- MR SpektroComposing
- MR spez. Workflows

Audience:
- syngo.via user (radiologists, physicians, RT/MTRAs)

Registration:
To register, please go to: www.siemens.at/MEDtraining
Ultrasound

Ultrasound diagnostics

From the generation of simple gray-scale images, diagnostic ultrasound imaging has developed into a highly advanced technical procedure. New areas of use and innovative applications have increased the importance of sonography in medicine.

In collaboration with specialists across all disciplines, Siemens is developing new systems, modern technologies and innovative methods in the field of diagnostics. Founded on a knowledge-based workflow, it is already possible today to remodel clinical routines through enhanced information density and by widening the range of applications – all of which helps achieve considerably improved diagnostic accuracy.

Our training courses are planned within a narrow time frame in order to account for the rapid evolution of ultrasound diagnostics while also offering course participants the greatest possible amount of learning content possible.

For the latest information, please refer to www.siemens.com/healthcare-training-center
Registration
Application training booklet

I hereby register for the following course:

Title
First name/Last name
Institution/Hospital
Street
ZIP/City, country
Phone w/area code
Fax
E-mail

I have read and accept the terms of use and registration conditions on the reverse.

Course
course
Course date
Course organizer/language
Course ID
Course fee

☐ I hereby register for the following course:

I/we need a hotel reservation from _______ until ________

☐ Single room  ☐ Double room  Category: ☐*  ☐**  ☐***  ☐****

Name of additional guest

☐ Preferred location of hotel: downtown  ☐ Preferred location of hotel: near the Training Center  ☐ Arrival by car  ☐ I do not need a hotel reservation

Bank info

☐ Or: Credit card company

Name of account holder (if other than above)

☑ I have already paid the course fees:

ORG ID
PO Number

Fax: +49 9131 6101 333
E-mail: admin-tc.healthcare@siemens.com

Siemens AG, Siemens Deutschland, Healthcare Sector,
Training Center, Course Administration

Date
Signature
Course Registration

Registration:
It is possible to register online for nearly all the courses we offer. In most cases all you need is the course ID. You can also use the registration form or contact us at the phone number listed at the side.

General terms and conditions:
Course fees include all refreshments, catering and training material. All courses held at the Siemens Training Center in Erlangen begin at 9:00 AM on the first day. Please check your registration confirmation or training material for further information about courses held at other locations. Your course registration is complete after availability has been checked. A reservation confirmation and further course information will be mailed to you or sent by e-mail well ahead of the course date. You will receive an invoice one to two weeks before the course takes place.

Cancelation:
There is no charge for cancelations made at least two weeks prior to the beginning of the course. However, payment of the total course fee is due if you miss to cancel at least two weeks before the course starts. Two weeks prior to the beginning of a course, we will decide if it is held despite low enrollment numbers.

Therefore we would like to ask you to register for courses at least two weeks in advance. If necessary, we reserve the right to change instructors or adjust how a course is run.

Hotel Booking:
The hotel booking is carried out exclusively by BOOK-IT Guest Houses, Carl-Thiersch-Str. 2c, 91052 Erlangen, Germany. The course fee and/or costs for reservation of a hotel will be charged to your credit card. For bank accounts located within Germany direct debit is possible (only for German bank accounts).

Payments:
The collection of any and all payments to be made by the client to the Healthcare Training Center will be performed by BOOK-IT. Please note items 6 and 7 of the General Terms and Conditions of SIEMENS AG pertaining to the training provided by the Healthcare Training Center, which can be found on the Internet at www.siemens.com/healthcare-training-center.

If you are unable to attend courses on the dates listed here, please let us know. We will try to accommodate your wishes.

Contact:
Siemens AG
Healthcare Sector
Customer Services
Training Center,
Course Administration
Phone: +49 9131 84-5005
Fax: +49 9131 6101-333
E-Mail: admin-tc.healthcare@siemens.com
Internet:
www.siemens.com/healthcare-training-center