

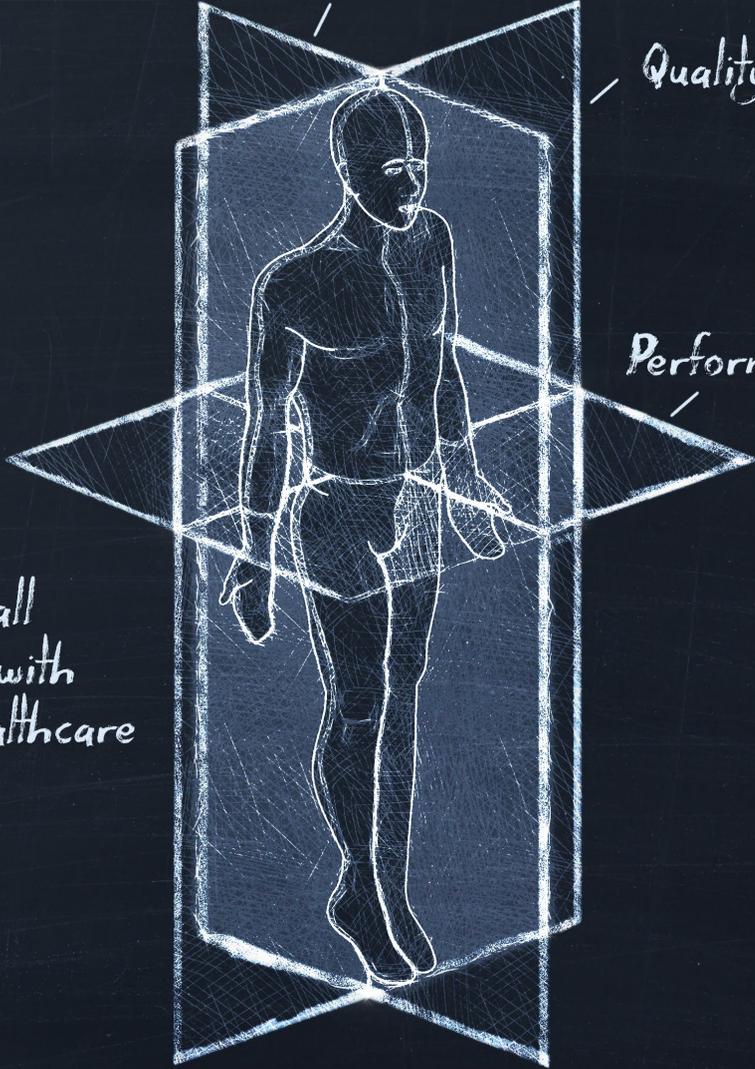
**SIEMENS**  
**Healthineers**

Research

Quality

Performance

Training in all  
dimensions with  
Siemens Healthcare  
Academy



Siemens Healthcare  
Academy

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## Preface

Aiming to create local added value with its leadership in the industry and innovative solutions, Siemens Healthcare established Siemens Healthcare Academy in 2004 in order to support the development of the industry and healthcare professionals in Turkey.

Motivated by this vision, Siemens Healthcare Academy has provided training services to thousands of MDs, healthcare technicians, hospital managers, academics and students with its different program contents since its first day of service.

Siemens Healthcare Academy regularly updates its training contents, using the constantly developing technologies in the way most appropriate for the dynamics and requirements of the healthcare industry in Turkey. It offers proactive solutions to the needs of its stakeholders with hands-on classroom trainings, workshops and online trainings in addition to on-site trainings for institutions.

We are delighted to present you the Siemens Healthcare Training Catalogue, prepared by our expert training team and containing our solutions that cover the requirements of today's healthcare sector in the best possible way.

Trainings

MAGNETOM Prisma  
A Tim+Dot System

SIEMENS



MR

**Level:**  
Beginner

**Type of Training:**  
Hands-on Classroom  
Training / On-site  
Training for Institutions

**Training Period:**  
2 Days

**Number of Participants:**  
Minimum 8

**Course IDF:**  
SIEMENSHMR01-QF

**Prerequisite for  
Participation:**  
None

### Why should you take this training?

MR is an important technology for human health in the field of medical imaging. Right and effective use of this technology increases the quality of diagnosis and treatment as well as the efficiency of institutions. **Hands-on Basic MR Training** is a program for users who want to improve their capabilities through tips and shortcuts to be given hands-on at the device.

### Contents of the training:

- State-of-the-art MR systems
- Sequences and usages
- Shortcuts and tips to increase efficiency
- Image quality and artifacts
- System structure of MR devices
- Basic MR physics
- MR safety

### Who can participate?

Inexperienced MR users, experienced MR users, managers who want to increase MR efficiency, healthcare professionals interested in the MR technology, MDs, technicians, biomedical engineers, students.



**Level:**  
Beginner

**Type of Training:**  
Hands-on Classroom  
Training / On-site  
Training for Institutions

**Training Period:**  
2 Days

**Number of Participants:**  
Minimum 8

**Course IDF:**  
SIEMENSHMR02-RQF

**Prerequisite for Participation:**  
SIEMENSHMR01 -QF  
Having completed the Basic Magnetic Resonance Training.

### Why should you take this training?

Cardiac MR technology offers the opportunity of effective diagnosis in cardiac applications that require know-how. Users who take the **Hands-on MR Cardiac Training** by the device-side learn about imaging protocols and techniques and have more self-confidence in cardiac practices. As the user's experience improves, the institution will enhance its imaging portfolio and thus create a difference in the industry.

### Contents of the training:

- Cardiac overview and planning
- 1.5T and 3T Cardiac imaging techniques
- Cardiac anatomy, function
- Electrophysiology (EKG)
- Special cardiac imaging techniques (Flow, Perfusion, Angiography)
- Cardiac DOT Engine
- Image processing (post-processing) applications

### Who can participate?

Inexperienced MR users, experienced MR users, MDs, technicians, managers who want to enhance MR services portfolio.



**Level:**  
Beginner

**Type of Training:**  
Hands-on Classroom  
Training / On-site  
Training for Institutions

**Training Period:**  
3 Days

**Number of Participants:**  
Minimum 8

**Course IDF:**  
SIEMENSHMR03-RQF

**Prerequisite for Participation:**  
SIEMENSHMR01 -QF  
Having completed  
the Basic Magnetic  
Resonance Training.

### Why should you take this training?

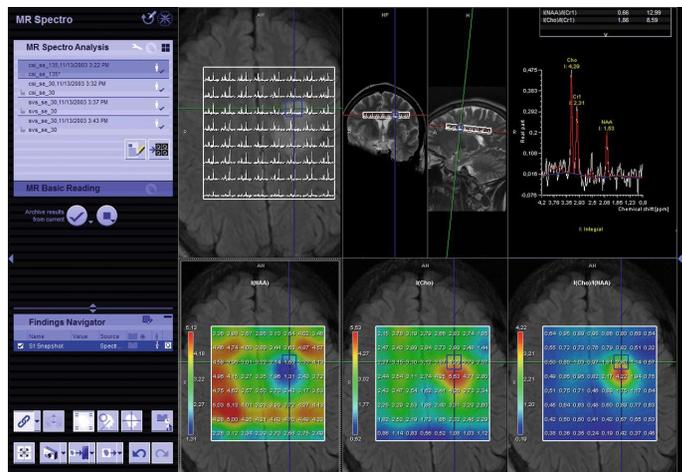
Neuro (Brain) and MSK (Musculoskeletal) MR is the most required MR application with the most comprehensive post-processing. Its importance in diagnosis and treatment planning increases every day with constantly developing techniques. With the **Hands-on MR Neuro / MSK Training**, users will learn imaging techniques and post-processing processes and gain more expertise. Thus, the workflow will accelerate and the institution will create a difference in the industry by enhancing its portfolio with Neuro and MSK imaging.

### Contents of the training:

- Neuro MR Imaging Protocols
- Neuro MR Angiography (with or without contrast agents)
- Latest neuroimaging techniques (Perfusion & Diffusion, Spectroscopy, DTI, FMRI, Flow)
- Neuro Post-Processing
- Latest MSK imaging techniques
- MSK image processing (post-processing)

### Who can participate?

Inexperienced MR users, experienced MR users, MDs, technicians, managers who want to enhance MR services portfolio.



**Level:**  
Advanced

**Type of Training:**  
Hands-on Classroom  
Training / On-site  
Training for Institutions

**Training Period:**  
3 Days

**Number of Participants:**  
Minimum 8

**Course IDF:**  
SIEMENSHMR04-RQ

**Prerequisite for Participation:**  
SIEMENSHMR01 -QF  
Having completed  
the Basic Magnetic  
Resonance Training

### Why should you take this training?

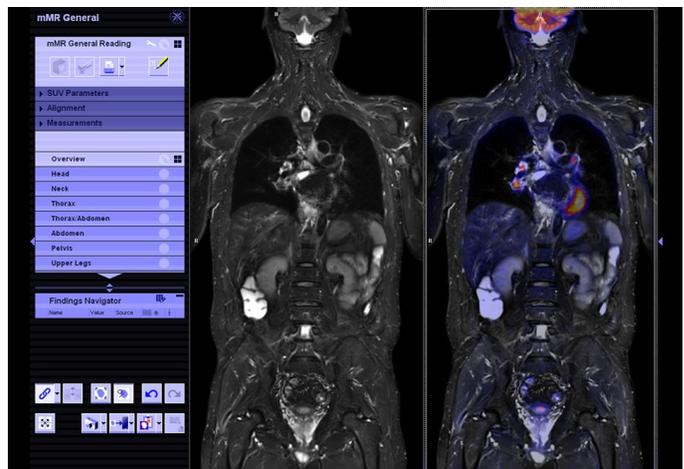
**Hands-on MR Body – Oncology / mMR Training** includes applications for early diagnosis of cancer in treatment planning, patient-specific imaging protocols in abdominal imaging and tips for reducing abdominal movement. The objective of the training is to improve users' knowledge, accelerate workflows and increase institutions' prestige with high diagnosis quality.

### Contents of the training:

- MR Abdomen imaging methods
- Sequence information and usages
- Respiration techniques
- Dynamic imaging
- Abdomen diffusion imaging
- Lower abdominal imaging
- Pelvis female • Pelvis male • Whole body imaging
- 3T Abdomen imaging
- MR-PET imaging

### Who can participate?

Inexperienced MR users, experienced MR users, MDs, technicians, biomedical engineers, students, managers who want to improve their MR services portfolio, healthcare professionals interested in the mMR technology.



**Level:**  
Advanced

**Type of Training:**  
On-site Training for  
Institutions

**Training Period:**  
1 Day

**Number of Participants:**  
To be determined by  
the institution

**Course IDF:**  
SIEMENSHMR05-F

**Prerequisite for  
Participation:**  
None

### Why should you take this training?

With the **Efficiency in MR Training** to be prepared exclusively for your institution, let us help you find the answer to the question: "Can we really use our high-tech MR devices efficiently?" After monitoring your institution's workflow and processes in detail, we will offer you suggestions for corrective action. The objective is to ensure that you get the highest efficiency from your MR system, thus increasing profitability while keeping the costs under control.

### Contents of the training:

- Parameters to improve device efficiency
- Applications for decreasing the use of contrast agents (CRADLE)
- High-quality planning
- Patient preparation and empathy
- Solutions for situations that negatively affect the workflow
- Refreshing the information on the device

### Who can participate?

Open to everyone who has a role in the daily routine of the institution's MR unit.



SIEMENS



CT

**Level:**  
Beginner

**Type of Training:**  
Hands-on Classroom  
Training / On-site  
Training for Institutions

**Training Period:**  
2 Days

**Number of Participants:**  
Minimum 8

**Course IDF:**  
SIEMENSCT01-QF

**Prerequisite for  
Participation:**  
None

### Why should you take this training?

Computed Tomography (CT) technology has an important place in the rapidly developing medical imaging field. Right and effective use of this technology increases the quality of diagnosis and treatment as well as the efficiency of institutions. **Hands-on Basic CT Training** is a program for users who want to improve their capabilities through tips and shortcuts to be given hands-on at the device.

### Contents of the training:

- Design and overview of CT
- Basic principles of CT technique
- Image quality, effective scanning parameters
- Artifact formation in CT and prevention methods
- Use of contrast agents
- Angiography imaging techniques and contrast agents capturing algorithms
- User interface
- Restructuring of raw data
- Innovations and trends in CT
- State of the art CT systems

### Who can participate?

Inexperienced CT users, experienced CT users, managers who want to improve CT efficiency, healthcare professionals interested in CT technology, biomedical engineers, students.



**Level:**  
Beginner

**Type of Training:**  
Hands-on Classroom  
Training / On-site  
Training for Institutions

**Training Period:**  
2 Days

**Number of Participants:**  
Minimum 8

**Course IDF:**  
SIEMENSCT02-QF

**Prerequisite for  
Participation:**  
SIEMENSCT01 -QF  
Having completed  
the Basic Computed  
Tomography Training.

### Why should you take this training?

With the **Hands-on Cardiac CT Training**, users who want to increase their know-how on Cardiac CT will not only get theoretical information on cardiac CT use and post-processing, but also have the opportunity to experience this theoretical knowledge with hands-on applications by the device.

### Contents of the training:

- Technical principles
- Effective use of dosage in Cardiac CT
- Imaging protocols and parameters in Cardiac CT
- Artifact formation in Cardiac CT and prevention methods
- Restructuring of raw data
- Calcium scoring in Cardiac CT
- Basic cardiac anatomy and morphology
- Multiphase and function in Cardiac CT
- Image processing (post-processing) in Cardiac CT

### Who can participate?

Inexperienced CT users, experienced users with no cardiac CT experience, MDs, technicians, biomedical engineers, students, managers who want to enhance CT services portfolio.



**Level:**  
Beginner

**Type of Training:**  
Hands-on Classroom  
Training / On-site  
Training for Institutions

**Training Period:**  
2 Days

**Number of Participants:**  
Minimum 8

**Course IDF:**  
SIEMENSCT03-QF

**Prerequisite for  
Participation:**  
SIEMENSCT01-QF  
Having completed  
the Basic Computed  
Tomography Training.

### Why should you take this training?

By combining conventional angiographic intravenous imaging with computed tomography technique, CT-Angiography enables non-invasive detailed examination of the vascular system.

**Hands-on CT-Angiography Training** includes comprehensive information on critical parameters that affect image quality, effective dose management and use of contrast agents. The objective of the training is to enhance knowledge in the area and improve the expertise of users.

### Contents of the training:

- Angiography examinations in CT
- Patient preparation before angiography
- Contrast agents in CT
- Management of CT parameters in angiography examinations
- Effective dose management in CT-Angiography
- Contrast time and phases in CT-Angiography
- Angiography imaging techniques in CT (test bolus, bolus triggering, estimated contrast time)
- Examination in CT-Angiography
- Image processing in CT-Angiography

### Who can participate?

Inexperienced CT users, experienced CT users, MDs, technicians, biomedical engineers.



**Level:**  
Beginner

**Type of Training:**  
On-site Training for  
Institutions

**Training Period:**  
1 Day

**Number of Participants:**  
To be determined by  
the institution

**Course IDF:**  
SIEMENSCT04-F

**Prerequisite for  
Participation:**  
None

### Why should you take this training?

With the **Efficiency in CT Training** to be prepared exclusively for your institution, let us help you find the answer to the question: "Can we really use our high-tech CT devices efficiently?" After monitoring your institution's workflow and processes in detail, we will offer you suggestions for corrective action. The objective is to ensure that you get the highest efficiency from your CT system, thus increasing profitability while keeping the costs under control.

### Contents of the training:

- Parameters that increase the efficiency of the device
- Effective use of X-ray tubes
- High-quality planning (FAST Care Platform)
- Patient preparation and empathy
- Solutions for situations that negatively affect the workflow
- ALARA (low dose) applications
- Refreshing the information on the device

Low  
dose

### Who can participate?

Open to everyone who has a role in the daily routine of the institution's CT unit.





AX

**Level:**  
Beginner

**Type of Training:**  
Hands-on Classroom  
Training / On-site  
Training for Institutions

**Training Period:**  
2 Days

**Number of Participants:**  
Minimum 8

**Course IDF:**  
SIEMENSXAX01-QF

**Prerequisite for  
Participation:**  
None

### Why should you take this training?

The objectives of the **Hands-on Basic Angiography Training** are to introduce basic operational principles and advanced application methods for the angiography devices used in interventional radiology and cardiology departments of hospitals, to increase user know-how through hands-on experience by the device, to accelerate workflow, and to improve the prestige of the institution with high quality diagnosis and treatment.

### Contents of the training:

- Technical overview of the angiography system
- Innovations and trends in our product portfolio
- Low Dose, CARE and CLEAR parameters
- User interfaces
- Options and large display
- Quantification, vascular analyses
- CLEARstent, CLEARstent Live
- DSA, Roadmap, DSA Roadmap, Overlay
- Peristepping/Perivision
- Introduction of 3D Imaging methods
- Network in angiography (HIS/RIS/PACS)

### Who can participate?

Inexperienced angiography users, experienced angiography users, MDs, technicians, biomedical engineers.



**Level:**  
Advanced

**Type of Training:**  
Hands-on Classroom  
Training / On-site  
Training for Institutions

**Training Period:**  
2 Days

**Number of Participants:**  
Minimum 8

**Course IDF:**  
SIEMENSHAX02-RQ

**Prerequisite for Participation:**  
SIEMENSHAX01-QF  
Having Received  
the Hands-on Basic  
Angiography Training.

### Why should you take this training?

3D angiography technology offers more advanced vascular imaging techniques by combining MR-CT-MI images and angiography images. The objectives of the **Fundamentals of 3D and Advanced Angiography Applications Training** are to accelerate the workflow in Cardiology/Radiology departments by increasing users' know-how on planning and imaging techniques through hands-on experience by the device, to accelerate workflow, and to improve the prestige of the institution with high quality diagnosis and treatment.

### Contents of the training:

- Dyna 3D, Dyna CT imaging fundamentals (Neuro/Body/Onco)
- Advanced applications specific to neurology, cardiology and oncology:
  - 3D Vascular analyses
  - 3D Roadmap
  - 2D/3D and 3D/3D Fusion
  - syngo Embolization Guidance
  - syngo Needle Guidance - TAVI Planning
- Angiography image processing (post-processing)
- User interface (syngo interface and features)

### Who can participate?

Inexperienced angiography users, experienced angiography users, healthcare professionals interested in angiography technology, MD's, technicians, biomedical engineers.



**Level:**  
Advanced

**Type of Training:**  
Hands-on Classroom  
Training / On-site  
Training for Institutions

**Training Period:**  
1 Day

**Number of Participants:**  
Minimum 8

**Course IDF:**  
SIEMSHAX03-Q

**Prerequisite for Participation:**  
SIEMSHAX01-QF  
Having Received  
the Hands-on Basic  
Angiography Training.

### Why should you take this training?

With the **Hands-on Sensis Hemodynamics Training** to be given by the side of the Sensis device that monitors the flow characteristics of the blood in the vascular system during angiographic applications, it is aimed to improve user's capability with shortcuts and tips for the use of the device.

### Contents of the training:

- System introduction (hardware, kits, data flow)
- Connection with the angiography systems
- Hemodynamics and Electrophysiology programs
- HPI, CTI
- Archiving
- Documentation tool
- Measured values and techniques
- syngo interface and features

### Who can participate?

Inexperienced angiography users, experienced angiography users, MDs, technicians, biomedical engineers.



**Level:**  
Advanced

**Type of Training:**  
Hands-on Classroom  
Training / On-site  
Training for Institutions

**Training Period:**  
1 Gün

**Number of Participants:**  
Minimum 8

**Course IDF:**  
SIEMENSHAX04-RQ

**Prerequisite for Participation:**  
SIEMENSHAX02-  
Having received the  
Fundamentals of 3D and  
Advanced Angiography  
Applications Training.

### Why should you take this training?

Syngo Dyna 4D is a technology that ensures real time (4D) monitoring of the vascular system and vascular diseases during angiographic applications. This technology is frequently used in the diagnosis of the AVM (Arteriovenous Malformation) disease.

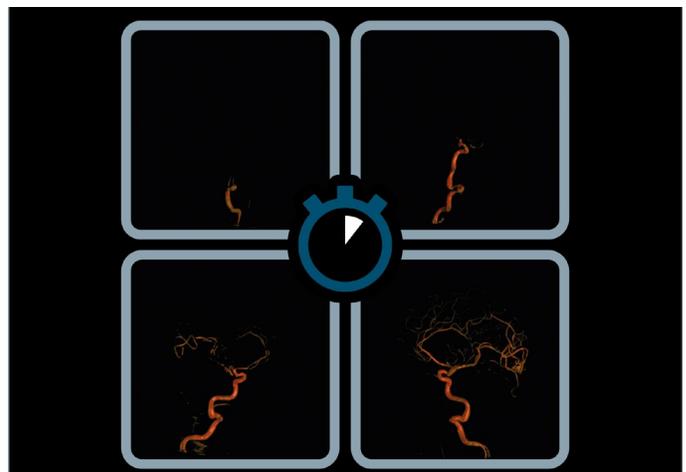
**Hands-on syngo Dyna 4D Training** is a program for users interested in innovation and state-of-the-art angiography imaging techniques and those who want to create a difference in the area.

### Contents of the training:

- Innovative approaches in angiography
- Vascular imaging
- Dyna 4D imaging technique
- Image processing (post-processing)
- Sample cases

### Who can participate?

Inexperienced angiography users, experienced angiography users, healthcare professionals interested in angiography technology, MDs, technicians, biomedical engineers.





MI

**Level:**  
Beginner

**Type of Training:**  
Hands-on Classroom  
Training / On-site  
Training for Institutions

**Training Period:**  
3 Days

**Number of Participants:**  
Minimum 8

**Course IDF:**  
SIEMENSHIM-01-QF

**Prerequisite for  
Participation:**  
None

### Why should you take this training?

Nuclear Medicine Imaging technology (NMI) is of importance in the rapidly developing area of medical imaging. Right and effective use of this technology increases the quality of diagnosis and treatment as well as the efficiency of institutions.

**Hands-on Basic Nuclear Medicine Imaging Training** is a program for users who want to improve their capabilities through tips and shortcuts to be given hands-on at the device.

### Contents of the training:

- Design and technical overview of NMI
- Basic PET and SPECT technical principles
- PETCT imaging techniques
- SPECT imaging types and techniques
- Radiopharmaceuticals and their use in SPECT/PETCT
- Processing methods in NMI
- Triggered imaging in NMI and areas of use
- Innovations and trends in NMI
- State-of-the-art NMI systems

### Who can participate?

Inexperienced SPECT (Gamma Camera) users, inexperienced PETCT users, inexperienced SPECTCT (Gamma Camera-CT) users, managers who want to improve SPECT/SPECTCT/PETCT efficiency, those interested in Nuclear Medicine imaging technology, biomedical engineers, students.



Please contact us via the communication channels below for detailed information on our hands-on classrooms trainings, workshops, online training services and on-site trainings specific for your institution:

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Fax: 0216 459 20 31

E-mail: [saglikakademi.tr@siemens.com](mailto:saglikakademi.tr@siemens.com)

\*Trainings given in our training catalogue are for the purposes of using the devices and our portfolio does not include trainings on technical service, maintenance or repair.

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