

# Siemens Healthineers Academy Malaysia

## 2024 Catalogue – Education and Training



Please click on the table of content at the  
side bar to navigate to your desired page!

## Our Key Education Services

Meet our team

Discover PEPconnect

SmartSimulators

Angiography

Computed Tomography

Magnetic Resonance Imaging

Molecular Imaging

Women's Health

## Our Key Education Services

### Healthineers Academy

Workshop/Webinars/Classroom Trainings onsite and online with an average of 30 participants in each class. Sessions are CPD-accredited.

### Back to Basic Course

Specially designed for new staff with a combination of e-learning, onsite workshops, and hands-on sessions.

### Excellence Course

For senior radiographers and super users. Learn the A to Z of the latest technologies in imaging.

### Remote Application Support

Provided through Smart Remote Services/phone. Support a case from start to end or IQ troubleshooting.

### Tailored Made Trainings and Knowledge Assessment

We start with a knowledge assessment of your entire team and create a customized education program just for your institute.

### Flex Force Coach

15 days per month onsite coaching for the first three (3) months after hand-over training.

### PEPconnection

Premium subscription to personalized education, performance experience of healthcare professional, and manage institution's workforce education.

## Our Key Education Services

### Meet our team

### Discover PEPconnect

### SmartSimulators

### Angiography

### Computed Tomography

### Magnetic Resonance Imaging

### Molecular Imaging

### Women's Health

## Meet our team!

Our Clinical Education Specialists will ensure that your clinical team will be able to master all the necessary skills for a system or specialty using a variety of learning options. All our Education Specialists have specialized clinical background and extensive experience. Additionally, we provide them with even more extensive training so they can effectively transfer that knowledge to you and your team.

Let our experts train your team to become experts too!



Susanna Basnayake  
MR, XPWH



Mohd Yushafizal Yusof  
MR



Sluhudin Hamdan Daem  
MR, XP, ATSU



Nazarul Azman  
AT, ATSU



Nabila Sinang  
MR, MI



Nurul Zafirah Zulkifli  
CT, MI



Mohd Aidy Dzahir  
CT

## Our Key Education Services

### Meet our team

### Discover PEPconnect

### SmartSimulators

### Angiography

### Computed Tomography

### Magnetic Resonance Imaging

### Molecular Imaging

### Women's Health

## Discover PEPconnect and PEPconnections

Our personalised education plan solutions allow individuals and facilities to build and manage personal and department-wide training plans.

### Personalised learning experience

PEPconnect is a complimentary virtual learning environment developed by Siemens Healthineers to support learning around Siemens Healthineers' systems and clinical specialties.

Users can devise their own learning plans to suit their needs and access a range of topics free of charge, at any time on any online device.

Further information can be found at:  
[pep.siemens-info.com/en-us/explore](http://pep.siemens-info.com/en-us/explore)

### Customised workforce education management

PEPconnections is a subscription-based education management platform that helps you plan, monitor, store, audit and manage staff training all in one place.

You can also add your own material, building a bespoke library for your department and staff.



## Our Key Education Services

### Meet our team

### Discover PEPconnect

### SmartSimulators

### Angiography

### Computed Tomography

### Magnetic Resonance Imaging

### Molecular Imaging

### Women's Health

## SmartSimulator

Your virtual connection to a hands-on scanner experience.

The SmartSimulator is an innovative **cloud-based solution** designed to cater to your training requirements.

The service offers **an opportunity for trainees to practice and gain experience** on an MR, CT, MI SPECT, MI PET, XP and syngo.via simulator, all **without requiring access to an actual system** in the workplace. Trainees connect to the simulators from their laptops or PCs using broadband internet connection and each user has access to their own private simulator. The service is perfect for either lecturer-led tutorials, or self-directed learning.

SmartSimulators are utilised in most Siemens Healthineers Academy courses and are included in onsite and remote training.

### Benefits for you:

- **Build on theoretical knowledge with practical exercises** on simulators based on our Siemens Healthineers systems.
- **Decrease orientation time** of staff when joining your department.
- Concurrent access to simulators for **both large and small groups** of trainees
- **Access on any PC** with broadband internet access (e.g. Institution computer, personal computer).
- **No hardware** required.
- **Simple and flexible booking process** allowing access when you need it with individual access to as many students as necessary.



**Our Key Education Services**

**Meet our team**

**Discover PEPconnect**

**SmartSimulators**

**Angiography**

**Computed Tomography**

**Magnetic Resonance Imaging**

**Molecular Imaging**

**Women's Health**

**Angiography**

## **Angiography Cardiac**

The objective of this classroom training is to provide radiographers with knowledge about Basic Angiography techniques and image troubleshooting.

### **Date**

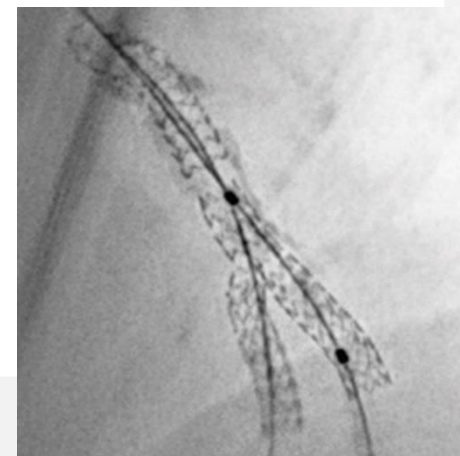
27 April 2024, Saturday

### **Target audience**

Radiographers who are new with angiography systems and wish to familiarize themselves with the existing features and protocols.

### **Course content**

- System Overview
- Protocols and Organ Programs
- Pediatric Imaging
- DSA & CLEARStent
- Post-processing and Quantification
- Advanced Application
- Troubleshooting and Image Quality



**Our Key Education Services**

**Meet our team**

**Discover PEPconnect**

**SmartSimulators**

**Angiography**

**Computed Tomography**

**Magnetic Resonance Imaging**

**Molecular Imaging**

**Women's Health**

Angiography

## Angiography Interventional Radiology

The objective of this classroom training is to provide radiographers with knowledge about Basic Angiography techniques and image troubleshooting.

### Date

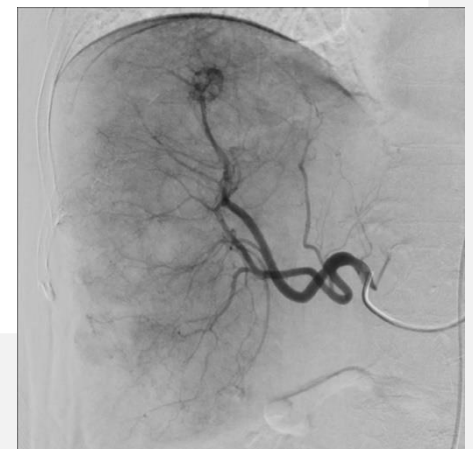
28 April 2024, Sunday

### Target audience

All radiographers using Siemens Healthineers Artis zee and Q systems, including beginners, current users, and core trainers.

### Course content

- System Overview
- Protocols and Organ Programs
- Pediatric Imaging
- DSA
- Roadmapping and Basic 3D
- Post-processing and Measurement Tools
- Troubleshooting and Image Quality



## Our Key Education Services

Meet our team

Discover PEPconnect

SmartSimulators

Angiography

Computed Tomography

Magnetic Resonance Imaging

Molecular Imaging

Women's Health

## Angiography and Surgery

### Radiation Safety & Good Theatre Practice

This single-day online workshop provides participants with knowledge and best practice advice regarding radiation safety in a theatre environment. Through the use of presentations and video demonstrations, participants will be provided with the ability to successfully implement good theatre practice. Participants will complete a series of best practice workflows that are documented and implemented for ongoing use.

#### Date

24 August 2024, Saturday

#### Target audience

Radiographers who aim to broaden their knowledge in radiation safety within the operating theater.

#### Course content

- The operating suite
- The C Arm setup
- Examination
- What is the surgeon looking for?
- Sterility and draping
- Radiation protection





Our Key Education Services

Meet our team

Discover PEPconnect

SmartSimulators

Angiography

Computed Tomography

Magnetic Resonance Imaging

Molecular Imaging

Women's Health

Computed Tomography

## CT Essentials (All Systems)

This two-day course will allow users to learn about the history and technology of CT, scanning parameters, factors affecting image quality, and fundamental skills on CT scanners and processing applications. It also covers reconstruction parameters, CT dose, and FAST Care technologies.

### Date

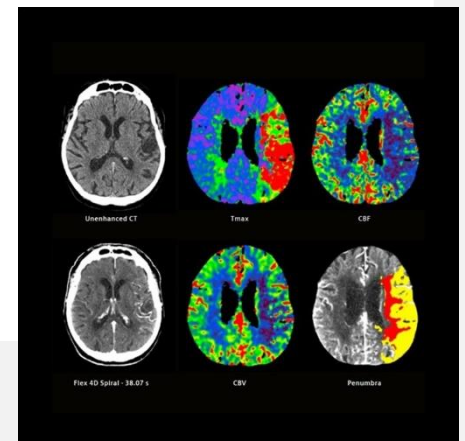
13-14 January 2024, Saturday-Sunday

### Target audience

Radiographers who are new to CT systems as well as radiographers who would like to expand their knowledge and enhance their skills. Also works as refresher trainings.

### Course content

- CT History and Technology
- Scanning Parameters
- Contrast Media
- Reconstruction Parameters (*Kernels and Algorithms*)
- CT Image Quality and Artefacts
- CT Dose and Right Dose
- FAST Care Technologies



**Our Key Education Services**

**Meet our team**

**Discover PEPconnect**

**SmartSimulators**

**Angiography**

**Computed Tomography**

**Magnetic Resonance Imaging**

**Molecular Imaging**

**Women's Health**

Computed Tomography

## **CT Essentials (Go Family)**

This two-day course will allow users to learn about the history and technology of CT, scanning parameters, factors affecting image quality, and fundamental skills on CT scanners and processing applications. It also covers reconstruction parameters, CT dose, and FAST Care technologies.

### **Date**

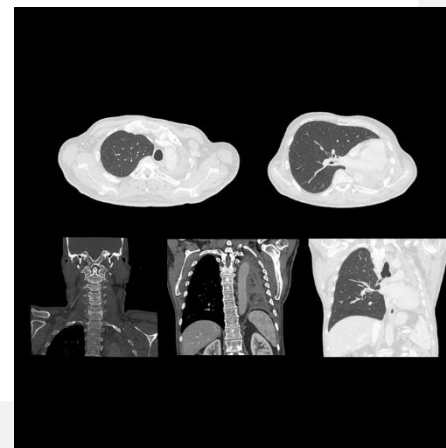
2-3 March 2024, Saturday-Sunday

### **Target audience**

Radiographers who are new to CT systems as well as radiographers who would like to expand their knowledge and enhance their skills. Also works as refresher trainings.

### **Course content**

- CT History and Technology
- Scanning Parameters
- Contrast Media
- Reconstruction Parameters (*Kernels and Algorithms*)
- CT Image Quality and Artefacts
- CT Dose and Right Dose
- FAST Care Technologies



**Our Key Education Services**

**Meet our team**

**Discover PEPconnect**

**SmartSimulators**

**Angiography**

**Computed Tomography**

**Magnetic Resonance Imaging**

**Molecular Imaging**

**Women's Health**

Computed Tomography

## **CT Cardiac (All Systems)**

The two-day theoretical and simulation course is designed to give the user an introduction to CT cardiac – from preparation to image processing. This course will build confidence of radiographers and impart knowledge to understand CT cardiac principles as well as to perform CT cardiac examinations in their daily routine.

### **Date**

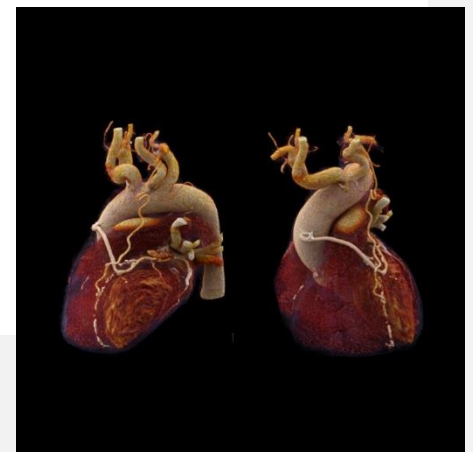
17-18 February 2024, Saturday-Sunday

### **Target audience**

For both new and experienced radiographers and clinicians entering the CT Cardiac field looking to expand their knowledge and expertise in this specialized area.

### **Course content**

- Cardiac anatomy and physiology
- Basic principle of CT cardiac
- Patient Registration
- Contrast injection strategy
- CT Cardiac scanning protocol
- Image reconstruction
- Artifact image quality
- CT cardiac examination
- syngo.via CT Cardiac



## Our Key Education Services

Meet our team

Discover PEPconnect

SmartSimulators

Angiography

Computed Tomography

Magnetic Resonance Imaging

Molecular Imaging

Women's Health

## Computed Tomography

### CT Cardiac (Go Family)

The two-day theoretical and simulation course is designed to give users an introduction to CT cardiac – from preparation to image processing. This course will build confidence of radiographers and impart knowledge to understand CT cardiac principles as well as to perform CT cardiac examinations in their daily routine.

#### Date

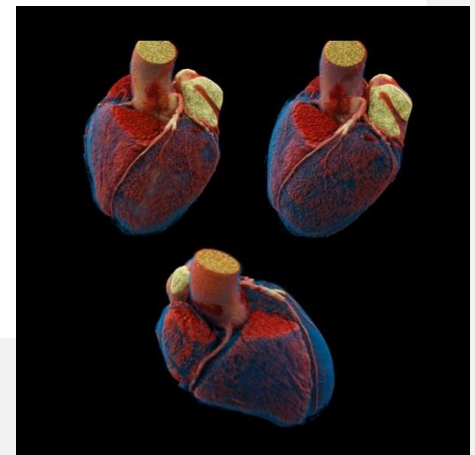
29-30 June 2024, Saturday-Sunday

#### Target audience

For both new and experienced radiographers and clinicians entering the CT Cardiac field looking to expand their knowledge and expertise in this specialized area.

#### Course content

- Cardiac anatomy and physiology
- Basic principle of CT cardiac
- Patient Registration
- Contrast injection strategy
- CT Cardiac scanning protocol
- Image reconstruction
- Artifact image quality
- CT cardiac examination
- syngo.via CT Cardiac



## Our Key Education Services

Meet our team

Discover PEPconnect

SmartSimulators

Angiography

Computed Tomography

Magnetic Resonance Imaging

Molecular Imaging

Women's Health

## Computed Tomography

### CT Dual Energy

This one-day course is essential for new and current users of Dual Energy who would like to better utilize Dual Energy in clinical practice on their Siemens Healthineers CT scanner. Participants will gain insight into dual energy scanning techniques by covering a vast array of clinical cases. Topics covered include dual energy physics, scanning principles, and dual energy post processing applications.

#### Date

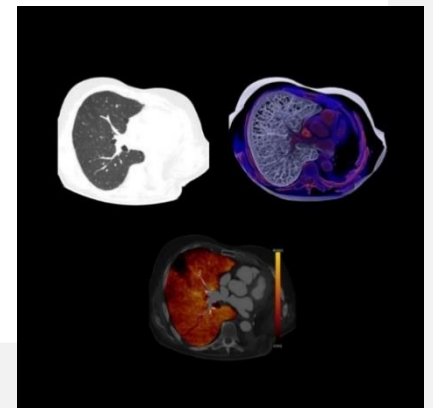
7 September 2024, Saturday

#### Target audience

For both new and experienced radiographers and clinicians who are keen on expanding their knowledge and expertise in dual-energy principles and applications.

#### Course content

- Dual Energy History and Technology
- Dual Energy Physics
- Dual Energy Scanning and Image Reconstruction including Algorithm and Fast DE
- Dual Energy Dose Optimisation
- Dual Energy in Clinical Practice
- Dual Energy Applications including kidney stones, bone removal, bone bruising, gout, virtual non-contrast, lung analysis / PBV, brain hemorrhage and heart PBV



## Our Key Education Services

Meet our team

Discover PEPconnect

SmartSimulators

Angiography

Computed Tomography

Magnetic Resonance Imaging

Molecular Imaging

Women's Health

## Computed Tomography

### ***syngo.via* Advance Post-Processing for CT**

This one-day workshop will provide *syngo.via* users with advanced CT workflow knowledge, evaluation, and documentation principles in theoretical and practical training sessions on client-based demo consoles. Additionally, there will be updates on recent software version changes - 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.

#### **Date**

8 September 2024, Sunday

#### **Target audience**

For radiographers and clinicians who are keen to learn post-processing workflow, reading, and finding creation.

#### **Course content**

- Update software "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
- CT Body Perfusion
- CT Liver Analysis
- CT Lung CAD



**Our Key Education Services**

**Meet our team**

**Discover PEPconnect**

**SmartSimulators**

**Angiography**

**Computed Tomography**

**Magnetic Resonance Imaging**

**Molecular Imaging**

**Women's Health**

Computed Tomography

## **Basic Protocols in CT (All Systems)**

This one-day workshop covers basic MSCT protocols and includes virtual demo of the user interface. Participants logging in via laptop or computer may have smart simulators dispatched to them, so they may follow the training accordingly.

### **Date**

23 March 2024, Saturday

### **Target audience**

For both new and experienced radiographers who are eager to expand their knowledge on system functionality and basic protocol setup.

### **Course content**

- Presentation of:  
Anatomy of patient, Head Procedures, Spine Procedures, Musculoskeletal Procedures, Neck & Chest procedures, Abdomen & Pelvis Procedures
- Presentation of MSCT technology, dosimetry, scan and recon parameter, and image post-processing in theory
- Presentation of a CT-scanner examination user interface functionality (simulator)



## Our Key Education Services

Meet our team

Discover PEPconnect

SmartSimulators

Angiography

Computed Tomography

Magnetic Resonance Imaging

Molecular Imaging

Women's Health

## Computed Tomography

### Basic Protocols in CT (Go Family)

This one-day workshop covers basic MSCT protocols and includes virtual demo of the user interface. Participants logging in via laptop or computer may have smart simulators dispatched to them, so they may follow the training accordingly.

#### Date

24 March 2024, Sunday

#### Target audience

For both new and experienced radiographers who are eager to expand their knowledge on system functionality and basic protocol setup.

#### Course content

- Presentation of:  
Anatomy of patient, Head Procedures, Spine Procedures, Musculoskeletal Procedures, Neck & Chest procedures, Abdomen & Pelvis Procedures
- Presentation of MSCT technology, dosimetry, scan and recon parameter, and image post-processing in theory
- Presentation of a CT-scanner examination user interface functionality (simulator)





**Our Key Education Services**

**Meet our team**

**Discover PEPconnect**

**SmartSimulators**

**Angiography**

**Computed Tomography**

**Magnetic Resonance Imaging**

**Molecular Imaging**

**Women's Health**

**Magnetic Resonance Imaging**

## **MR Essentials**

The two-day course provides an overview of MR physics, imaging sequences and parameter adjustments to achieve optimal image quality. It also covers BLADE, iPAT, fat suppression techniques and MR artifacts in detail. This course covers hands-on session which gives participants first-hand experience.

### **Date**

20-21 January 2024, Saturday-Sunday

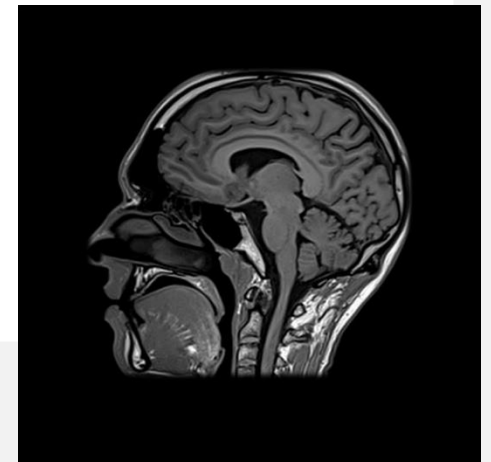
11-12 May 2024, Saturday-Sunday

### **Target audience**

For both new and experienced radiographers who are eager to enhance their foundation knowledge in MRI.

### **Course content**

- MR Spin and Signal
- MR Spin Relaxation and Image Contrast
- MR Spatial and Encoding and Image Formation
- MR Artifacts and Remedies
- MR Safety
- MR Pulse Sequence Introduction
- Understand Image Quality and Scan Parameters
- SNR Parameters



**Our Key Education Services**

**Meet our team**

**Discover PEPconnect**

**SmartSimulators**

**Angiography**

**Computed Tomography**

**Magnetic Resonance Imaging**

**Molecular Imaging**

**Women's Health**

## Magnetic Resonance Imaging

### MR Cardiac

The two-day course provides a detailed presentation of MR Cardiac applications - including hands-on sessions. After this course, attendees will understand the cardiac examination techniques and protocols. This course also introduces the advanced cardiac techniques which will point out the developing tendency of cardiac MR.

#### Date

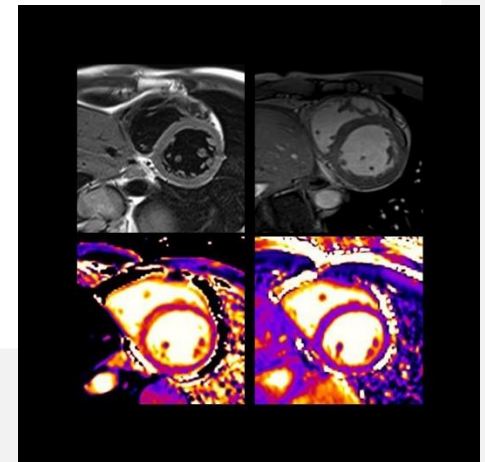
2-3 March 2024, Saturday-Sunday

#### Target audience

For radiographers and as well as clinicians entering the MR Cardiac field to expand their knowledge and expertise in this specialized area.

#### Course content

- Cardiac Localizer
- Cardiac Morphology
- Cardiac Cine
- Flow Quantification
- Argus/syngo.via post-processing
- Cardiac Perfusion
- Cardiac Late Enhancement
- MR Coronary Imaging
- MR Myomap
- Argus/syngo.via post processing



## Our Key Education Services

Meet our team

Discover PEPconnect

SmartSimulators

Angiography

Computed Tomography

Magnetic Resonance Imaging

Molecular Imaging

Women's Health

## Magnetic Resonance Imaging

### MR Angiography

This one-day MRI course provides the opportunity to learn about angiographic MRI imaging techniques. Participants will gain a better understanding of sequence parameter settings, adaptation and optimization, 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.

#### Date

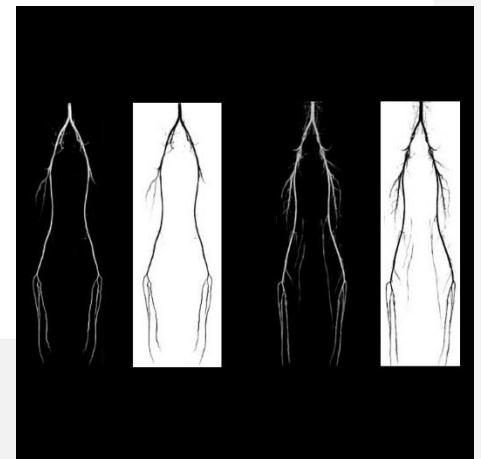
21 September 2024, Saturday

#### Target audience

For both new and experienced radiographers keen to learn about angiographic MRI.

#### Course content

- Review physical principles of MRI
- Safety aspects regarding MR equipment
- MRI sequences and parameters for fast imaging
- Parallel imaging techniques
- Image quality: avoiding artifacts
- Contrast agents in MRI
- MR angiography: non-contrast and contrast enhanced techniques
- Specific adaptations of examination protocol



## Our Key Education Services

Meet our team

Discover PEPconnect

SmartSimulators

Angiography

Computed Tomography

Magnetic Resonance Imaging

Molecular Imaging

Women's Health

## Magnetic Resonance Imaging **MR Breast and Prostate**

The two-day workshop focuses on MRI Prostate and Breast knowledge and includes scientific sharing of the *syngo.via* user interface and hands-on training. Attendees will learn about patient preparation and correct examination protocol planning which leads to accurate interpretations of radiological findings. The course is equipped with *syngo.via* server-client based workplaces.

### Date

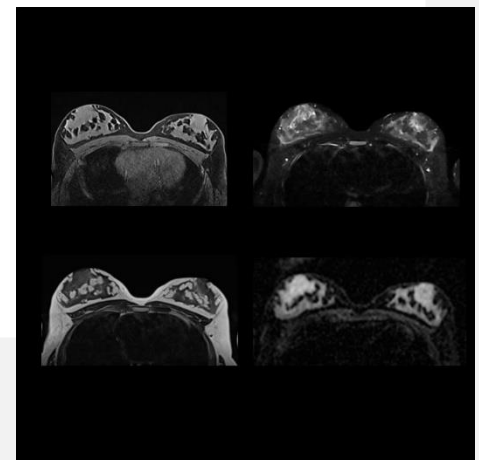
20-21 July 2024, Saturday-Sunday

### Target audience

For radiographers and clinicians who are new to breast and prostate MRI and wish to explore these areas.

### Course content

- Patient Preparation
- Indication for Examination
- Basic Protocols
- Implant Protocols for Breasts
- Pirads 2.1 for MR Prostate
- Post-Processing



## Our Key Education Services

Meet our team

Discover PEPconnect

SmartSimulators

Angiography

Computed Tomography

Magnetic Resonance Imaging

Molecular Imaging

Women's Health

## Magnetic Resonance Imaging

### ***syngo.via* Advance Post-Processing for MR**

This one-day workshop will provide *syngo.via* users with advanced MR workflow knowledge, evaluation, and documentation principles in theoretical and practical training sessions on client-based demo consoles. on client-based demo consoles. Additionally, there will be updates on recent software version changes - 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.

#### Date

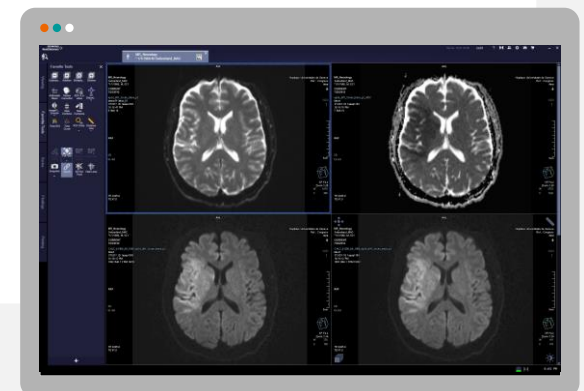
17 August 2024, Saturday

#### Target audience

For radiographers and clinicians who are keen to learn post-processing workflow, reading, and finding creation.

#### Course content

- Update software "State of the Art"
- MR Vascular
- MR Cardiac
- MR Oncology
- MR Prostate
- MR Breast
- MR Neurology
- MR SpectroComposing
- MR Specific Workflows



## Our Key Education Services

Meet our team

Discover PEPconnect

SmartSimulators

Angiography

Computed Tomography

Magnetic Resonance Imaging

Molecular Imaging

Women's Health

## Molecular Imaging **PET Essentials**

The learning objective of this two-day course is to introduce participants to Positron Emission Tomography. The class covers the medical, physical, and technological background of PET Imaging.

### **Date**

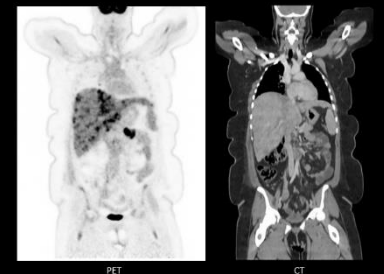
16-17 March 2024, Saturday-Sunday

### **Target audience**

For both new and experienced Siemens Healthineers MI users who wish to explore and expand their knowledge in this area.

### **Course content**

- Medical background of PET Imaging
- Basic nuclear physics
- Radiation protection
- PET technology (data acquisition, reconstruction quantification, corrections)
- FDG imaging basics



## Our Key Education Services

Meet our team

Discover PEPconnect

SmartSimulators

Angiography

Computed Tomography

Magnetic Resonance Imaging

Molecular Imaging

Women's Health

## Molecular Imaging **SPECT Essentials**

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

### Date

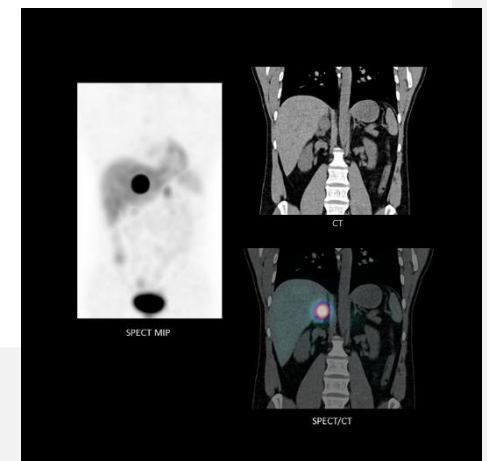
13-14 July 2024, Saturday-Sunday

### Target audience

For both new and experienced Siemens Healthineers MI users who wish to explore and expand their knowledge in this area.

### Course content

- Operating a SPECT/CT system
- SPECT/CT safety considerations demonstrated on a Symbia Intevo system
- SPECT/CT acquisition, evaluation, and display
- Modification of SPECT/CT acquisition and evaluation workflow



Our Key Education Services

Meet our team

Discover PEPconnect

SmartSimulators

Angiography

Computed Tomography

Magnetic Resonance Imaging

Molecular Imaging

Women's Health

Women's Health

## Mammography Essentials

This session is for users to understand the features of their Mammogram System, the factors affecting image quality, radiation dose management and show the ability to apply the knowledge on their daily routine. Users will be able to do routine mammogram examination and perform image post processing independently.

### Date

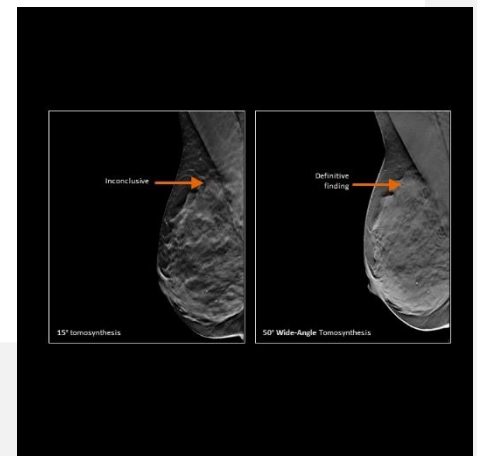
8-9 June 2024, Saturday-Sunday

### Target audience

For both new and experienced radiographers using Siemens Healthineers mammogram system.

### Course content

- Breast Anatomy & Physiology
- Physics & Technology of Mammography
- QA & PGMI
- Tomosynthesis Technology & Fundamentals
- Stereotactic Biopsy Basics
- HD Biopsy





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**Siemens Healthineers Malaysia**

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