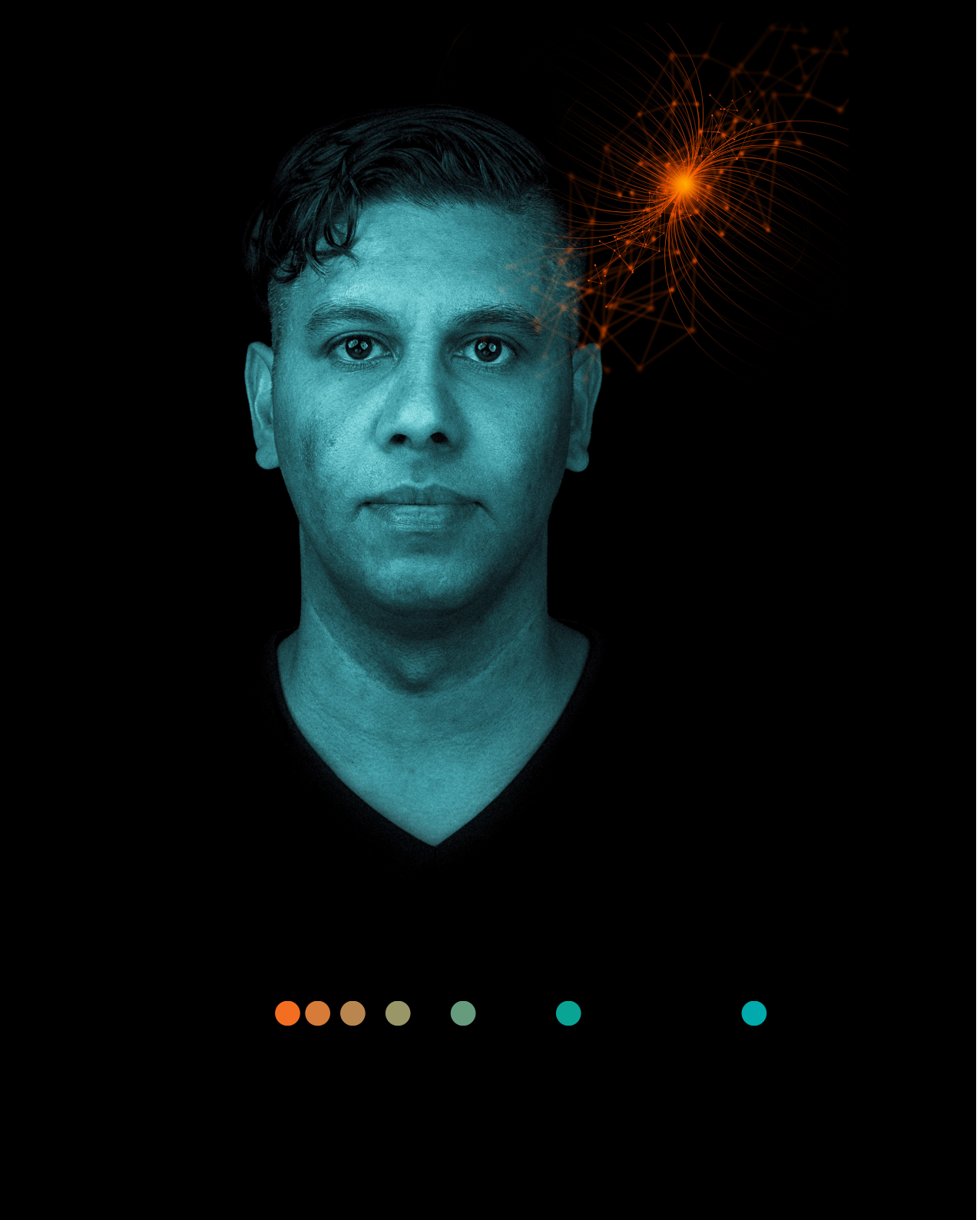

Course programme

Satellite Academy courses and virtual training.

SIEMENS Healthineers

Classroom and virtual training

Our education portfolio offers a variety of approaches to meet the needs of different learning styles and provide a stimulating experience.

We continually update our course offerings to support your needs in the evolving healthcare environment. View and register for courses at **siemens-healthineers.com/en-au/education/fixture**

Academy courses and virtual training
We host a range of courses across the country. These can be delivered either in the classroom or via a virtual meeting interface. Learners also benefit from our SmartSimulator software*, gaining valuable hands-on practice to support their learning experience.

Modality-specific user groups
Joining a user group keeps you up to date with the latest hot topics, developments, and innovations. Working alongside key opinion leaderswe deliver a topical and thought-provoking agenda.

Webinars
Webinars are a convenient way of staying up-to-date with the latest in imaging developments from Siemens Healthineers.

We have a portfolio of on-demand webinars accessible through PEPconnect (see page 3) as well as live, interactive webinars. We continually update our course offerings to support your needs in the evolving healthcare environment.

View and register for courses at **pep.siemens-info.com/en-us**

Contact
healthcaretraining.au@siemens-healthineers.com

** Where available*

Discover PEPconnect & PEPconnections

Our personalised education plan solutions allows 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 specialities.

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.

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.

Further information can be found at:
pep.siemens-info.com/en-us/explore

SmartSimulators

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.
Virtual training using cloud-based simulation provides an enriching learning environment for safe practical training that doesn't interrupt the usage of your clinical equipment. SmartSimulators are utilised in most Siemens Healthineers Academy courses and are included in onsite and remote training.
Using this platform will:

- **Enhance confidence** by providing staff and trainees with hands-on experience using a virtual medical device, guided by an expert to improve the efficiency of each individual.
- **Increase device utilisation** with shorter ramp-up times for systems and employees to keep daily operations running for higher throughput.
- **Boost performance** at a lower cost by leveraging innovative technology with scan practice on simulated, cloud-based medical device interfaces.

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.

Radiologist Masterclass

Delivered by leading Radiologists and Specialists in their field, these Masterclass workshops deliver dedicated training on a variety of topics. These workshops have a theoretical components to provide adequate background on the selected topic, but are largely interactive with the use of dedicated workstations. The attendees will be guided through a series of carefully selected cases and become familiar with the common pathologies, unusual findings and optimal imaging techniques.

The masterclass courses are all approved for CPD Credits with the Royal Australia and New Zealand College of Radiologists (RANZCR).

Course content

- Theory and image quality
- Review of carefully selected courses
- Hands-on experience and training on dedicated workstations
- Support from Applications Specialists during the course.

Target audience

Radiologists and Specialists who are new to and wish to expand their knowledge in their field of expertise. These courses are a must for those who wants to enhance their skills and knowledge in a small hands-on environment.

A list of previous courses:

- MR Masterclass: Sports imaging
- MR Masterclass:Advanced Rectal MR
- MR Masterclass: Imaging of Prostate Cancers
- CT/MR Masterclass: Liver Disease
- CT/MR Masterclass: Benign Gynaecological Conditions
- MR Masterclass: Body Imaging
- CT Masterclass: Occupational Lung Disease
- CT Masterclass: CT Colonography

Angiography

Artis zee and Q Essentials - Virtual Training and Classroom Training

1

1 Day Duration

This course will provide participants with the fundamentals of the ARTIS zee and Q Family Angiography systems. Theory is coupled with simulator training designed to give participants valuable knowledge, as well as the opportunity to practice new skills with hands-on practical exercises and demonstrations.
(Please note that VE software will not be covered)

Target audience
All radiographers using a Siemens Healthineers Artis zee and Q system on software VD11+, including new starters, current users and core trainers.

Course content
- An introduction to Siemens Healthineers Artis zee and Q systems
- An overview of browser functionality
- How to increase image quality
- Tips and tricks on post processing and measurements
- Understanding the basic principles of DSA and
- Roadmap image formation.
- How to reduce patient and operator dose.

This training is approved for CPD Credits with the Australian Society of Medical Imaging and Radiation Therapy.

Angiography

Artis zee & Q Advanced Applications

2

2 Day Duration

This course provides participants with the knowledge to successfully perform the advanced functions of 3D imaging, post processing, archiving and advanced software applications for Interventional Radiology. Through the use of presentations and hands-on time with simulators, participants will learn advanced clinical workflows including Embolisation Guidance, Needle Guidance, 2D/3D fusion and 3D/3D fusion and overlay, EVAR Guidance, Aortic Valve Guidance and Aneurysm Analysis.

Target audience
Radiographers and Radiologists using Siemens Healthineers Artis zee and Q family systems using software VD11+ and undertaking 3D imaging.

Course content
- Basic principles of 3D imaging
- Overview of the 4D Task Card, including dual patient processing and in-room control
- Methods for using acquired 3D data for overlay (Live on 3D, Objects and Contour)
- An understanding of 2D/3D and 3D/3D registration
- Using advanced 3D application workflows (e.g. needle guidance).

This training is approved for CPD Credits with the Australian Society of Medical Imaging and Radiation Therapy.

Angiography

ARTIS icono and pheno Essentials – Virtual Training and Classroom training

1

1 Day Duration

This course will provide participants with the fundamentals of the ARTIS icono and pheno Family Angiography systems. Theory is coupled with simulator training designed to give participants valuable knowledge, as well as the opportunity to practice new skills with hands-on practical exercises and demonstrations on ARTIS software VE20+ (VD Software will not be covered)

Target audience
All radiographers using a Siemens Healthineers ARTIS icono and pheno systems on software VE20+ , including new starters, current users and core trainers.

Course content
- An introduction to Siemens Healthineers ARTIS icono and pheno systems
- An overview of browser functionality
- How to increase image quality
- Tips and tricks on post processing and measurements
- Understanding the basic principles of DSA and
- Roadmap image formation.
- How to reduce patient and operator dose.

This training is approved for CPD Credits with the Australian Society of Medical Imaging and Radiation Therapy.

Angiography

ARTIS icono and pheno Advanced Applications

2

2 Day Duration

This course provides participants with the knowledge to successfully perform the advanced functions of 3D imaging, post processing, archiving and advanced software applications for Interventional Radiology. Through the use of presentations and hands on time with simulators, participants will learn advanced clinical workflows including Embolisation Guidance, Needle Guidance, 2D/3D fusion and 3D/3D fusion and overlay, EVAR Guidance, Aortic Valve Guidance and Aneurysm Analysis.
(Please note that VD software will not be covered)

Target audience
Radiographers and Radiologists using Siemens Healthineers ARTIS icono and pheno family systems using software VE20+ and undertaking 3D imaging.

Course content
- Basic principles of 3D imaging
- Overview of the 3D sharing/viewing segment, including dual patient processing and in-room control.
- Methods for using acquired 3D data for overlay (Live on 3D, Objects and Contour)
- An understanding of 2D/3D and 3D/3D registration
- Using advanced 3D application workflows (e.g. needle guidance).

This training is approved for CPD Credits with the Australian Society of Medical Imaging and Radiation Therapy.

Angiography

Sensis Essentials and Administration - Virtual Training

1

1 Day Duration

This course will run over two x 4-hour sessions covering practical skills for monitoring everyday cases in the Cardiac Cath Lab. The training will include theory and simulator sessions on single pressure and dual pressure workflows for such instances as Left Heart, Right Heart, FFR, and CTO.

Daily admin functions will also be covered for streamlined workflow, including pre-registering patients, viewing previous reports, and reviewing studies in post-processing. Participants will learn how to put these principles into practice by demonstrating workflows and applications on Sensis.

Target audience
Radiographers, Nurses and Cardiac Technicians using Siemens Healthineers Sensis systems software version VD11 onwards.

Course content

- Introduction to the Cath Lab
- Cardiac Anatomy & Physiology
- ECG arrhythmia recognition
  - Haemodynamic monitoring, Documentation & interpretation using Sensis
  - ECG and Cardiac Output
  - Non-invasive Blood Pressure
  - Left and Right Heart Pressure Waveforms

This training is approved for CPD Credits with the Australian Society of Medical Imaging and Radiation Therapy.

Angiography

Sensis Advanced - Virtual Training

1

1 Day Duration

This course is designed for the Cath Lab monitor who would like to improve their knowledge and skills on more challenging cases performed in a Cardiac Cath Lab. The Sensis advanced course will run over two x 4-hour sessions, including theory and simulator-based content. It will take an in-depth look at right heart caths and the methods of cardiac output and monitoring for structural heart procedures such as TAVI's. The course will also cover some of the more advanced admin tasks, such as adding hierarchies and equipment to the database dictionaries, reviewing cases in the patient explorer, and running Statistics searches on the database.

Target audience
Radiographers, Nurses and Cardiac Technicians using Siemens Healthineers Sensis systems software version VD11 onwards.

Course content
- Post-processing Study review
- Advanced Administration tasks
- Editing the database/ existing groups
- Adding, obsoleting
- Adding hierarchies
- Case review through patient explorer
- Vibe Analytics
- Building, defining and running searches

This training is approved for CPD Credits with the Australian Society of Medical Imaging and Radiation Therapy.

Computed Tomography

CT Essentials for the SOMATOM go. Platform - Virtual Training and Classroom Training

1

1 Day Duration

This one day course provides participants with the fundamentals of the SOMATOM go. CT scanners. Theory is coupled with hands-on training designed for radiographers who are new to CT or about to commence scanning on a SOMATOM go. system. The emphasis of this course is on giving participants as much hands-on experience as possible, providing participants with valuable and practical skills that stand out in a busy work environment. Utilising the Siemens Healthineers CT simulators and practical exercises, we will guide you from start to finish through many common CT examinations.

Target audience

Radiographers that are new to the SOMATOM go. Platform and those wishing to gain a better understanding of CT scanning on the Siemens Healthineers SOMATOM go. CT systems.

Course content

- Introduction to Siemens Healthineers Technology and the go.platform
- Scan Parameters
- Scan Modes - Spiral, Sequential, Tin Filter, ECG Gating
- Timeline & CAREBolus and Workbook
- Basic Reconstruction Parameters
- Protocol Construction
- Image Quality and Artefacts
- View & Go basic and View & Go Advanced

This training is approved for CPD Credits with the Australian Society of Medical Imaging and Radiation Therapy.

Computed Tomography

CT Advanced Scanning and Workflows

2

2 Day Duration

This two-day course covers advanced scanning techniques and *syngo*.via applications to enhance your ability to perform complex examinations including acute stroke imaging, vascular imaging and dual-energy. Additionally, participants will apply theoretical knowledge with extensive hands-on exercises using our 3D post processing software and CT Simulators.

Target audience
Radiographers who wish to extend their knowledge of CT and learn a variety of advanced scanning techniques and *syngo*.via applications to enhance their ability to perform complex examinations with confidence.

Courrse content
- Scanner hardware and basic CT principles
- CT Vascular - Principles, Scanning and Techniques
- CT Vascular - Hands-On
- CT Neuroperfusion - Principles, Scanning and Techniques
- CT Neuroperfusion - Hands-on
- Advanced Clinical Imaging
- CT Dual Energy - Physics, theory and Scanning Principles
- CT Dual Energy - Hands on and workups

This training is approved for CPD Credits with the Australian Society of Medical Imaging and Radiation Therapy.

Computed Tomography

CT Neuroperfusion - Virtual Training and Classroom Training

1/2

1/2 Day Duration

This half day course is designed to provide participants with the fundamentals of stroke imaging and efficient workups. It is ideal for radiographers who are involved in or want to start Neuroperfusion or stroke imaging.

Target audience
Radiographers wishing to gain a better understanding of the fundamental concepts of CT Neuroperfusion and the workup of these images on *syngo*.via.

Course content
- Anatomy and Pathology
- Disease and Clinical Pathways
- Perfusion Models
- Scanning Modes, parameters and contrast
- Reconstruction techniques
- Hands-On training with CT Simulators
- Workups using *syngo*.via

This training is approved for CPD Credits with the Australian Society of Medical Imaging and Radiation Therapy.

Computed Tomography

CT Scanning for Paediatrics - Virtual Training and Classroom Training

1/2

1/2 Day Duration

The goal of the course is to equip participants with the fundamentals of paediatric scanning, dose management, dedicated protocol building along with tips and tricks from some of our major dedicated children's hospital sites.

Target audience
Radiographers wishing to gain a better understanding of CT scanning and dose management in paediatric CT.

Course content
- Scanner Technologies
- Radiation Dose - Adult vs Paediatric
- CARE Dose 4D with hands-on session
- CARE kV with hands-on session
- Clinical Case studies
- Tips and Tricks for Paediatric Scanning
- Contrast media use in Paediatrics

This training is approved for CPD Credits with the Australian Society of Medical Imaging and Radiation Therapy.

Computed Tomography

CT Cardiac Essentials - Virtual Training and Classroom Training

1

1 Day Duration

This course is designed for those looking to advance their CT cardiac skills. In this course you will learn the fundamentals of CT coronary angiograms including heart anatomy, scanning principles, contrast timings and dose reduction techniques. There is a strong hands on focus with practice in post processing techniques using CT Simulators and *syngo*.via where participants will work up a variety of clinical cases.

Target audience
Radiographers new to or wishing to gain a better understanding of cardiac CT scanning.

Courrse content
- Patient preparation
- Basic coronary anatomy and physiology
- Gating principles/overview of ECG
- Scan protocol selection and optimisation
- Dose Reduction Techniques
- Calcium Scoring
- Hands on exercises with CT Simulators
- Post processing - introduction to *syngo*.via

This training is approved for CPD Credits with the Australian Society of Medical Imaging and Radiation Therapy.

Computed Tomography

CT Cardiac Angiography: Single Source

2

2 Day Duration

This course is designed for those looking to advance their CT cardiac skills using a Single Source CT scanner. In this course you will learn the fundamentals of CT coronary angiograms including heart anatomy, scanning principles, contrast timings and dose reduction techniques. There is a strong hands on focus with practice in post processing techniques using syngo.via. Participants will work up a variety of clinical cases.

Target audience
Radiographers new to, or wishing to gain a better understanding of cardiac CT using a single source CT Scanner.

Course content
- Patient preparation
- Basic anatomy and physiology
- Gating principles/overview of ECG
- Scan protocol selection and optimisation
- Contrast timing
- Dose Reduction Techniques
- Calcium Scoring
- Hands on exercises with CT Simulators
- Post processing - introduction to *syngo*.via

This training is approved for CPD Credits with the Australian Society of Medical Imaging and Radiation Therapy.

- Classroom and virtual training
- Discover PEPconnect
- SmartSimulators
- Radiologist Masterclass
- Angiography
  - Computed Tomography
- Magnetic Resonance Imaging
- Molecular Imaging
- Digital Health
- Ultrasound

Computed Tomography

CT Cardiac Angiography: Dual Source

2

2 Day Duration

This two-day course is designed to equip radiographers with advanced knowledge and ability in Dual Source CT Cardiac Angiography. Following this training, you'll have the tools to scan CT coronary angiograms with confidence.

Target audience
Radiographers new to, or wishing to gain a better understanding and increase their skills in cardiac CT using a dual-source CT scanner.

Course content
- Patient preparation
- Basic anatomy and physiology
- Gating principles/overview of ECG
- Scan protocol selection and optimisation
- Contrast timing
- Dose Reduction Techniques
- Calcium Scoring
- Chest Pain Protocols
- Hands on exercises with CT Simulators
- Post processing - introduction to *syngo*.via.

This training is approved for CPD Credits with the Australian Society of Medical Imaging and Radiation Therapy.

Computed Tomography

CT Dual Energy - Virtual Training and Classroom Training

1

1 Day Duration

This one-day course is essential for current users of Dual Energy who would like to better utilise 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.

Target audience
Radiographers wishing to enhance their understanding and skills in Dual Energy scanning.

Courrse content
- Background Physics and Principle of Dual Energy
- Scanning Techniques with Dual Energy
- Reconstruction and Image Quality using Dual Energy
- Dual Energy Applications within *syngo*.via
- Workflows and image productions
- Troubleshooting and reduction of artifacts
- Hands-on exercises using CT simulators and *syngo*. via workstations

This training is approved for CPD Credits with the Australian Society of Medical Imaging and Radiation Therapy.

Computed Tomography

CT Clinical Excellence with *syngo*.via

2

2 Day Duration

This two-day course will equip radiographers with an advanced knowledge in the functionality of *syngo*.via. Though the use of demonstrations, lectures and exercises, particpants will learn a vast variety of different clinical workflows. These include MM Reading, MM Oncology, CT Vascular, CT NeuroDSA/Neurovascular, CT Cardiac, CT Dual Energy and CT Neuroperfusion.

Target audience
Radiographers that wish to increase their knowledge of advanced clinical workflows and advanced visualisation using *syngo*.via.

Course content
- Introduction to *syngo*.via
- Clinical Administration
- MM Reading - Overview and Hands-On
- CT Dental - Overview and Hands-On
- CT Colonography - Overview and Hands-On
- CT Vascular and Dynamic Angiography
- CT Neurovascular and CT Neuroperfusion
- CT Dual Energy - Basic Theory and Scanning Principles
- CT Dual Energy Workflows - Overview and Hands-On

This training is approved for CPD Credits with the Australian Society of Medical Imaging and Radiation Therapy.

Computed Tomography

CT for the Radiation Therapist - Virtual Training and Classroom Training

1

1 Day Duration

This course is designed for Radiation Therapists who wish to build on their knowledge of CT in Radiation Therapy. This course combines theoretical knowledge and a large component of hands-on experience through simulation, exercises and case review. Emphasis is placed on understanding how fundamental principles can be applied in helping Radiation Therapists create and adapt scanning protocols to achieve the lowest possible doses in CT Radiotherapy scanning.

Target audience
Radiation Therapists or radiographers using CT in the Radiation Therapy environment wishing to gain a better understanding of the principles, scanning and protocols of CT scanning in the Radiation Therapy department.

Courrse content
- User Interface and Protocol Selection
- Scanner hardware and basic CT principles
- Reconstruction and Acquisition Parameters
- Respiratory Gating and 4DCT
- Standard Practice
- Scanning Phantoms
- CT Accuracy and Calibration
- Hands-On exercises with CT Simulators

This training is approved for CPD Credits with the Australian Society of Medical Imaging and Radiation Therapy.

Molecular Imaging

MI PET Essentials – Virtual Training and Classroom Training

1

1 Day Duration

This course has been designed to give an overview of the entire PET imaging environment, from the hardware of the system to the available reconstruction methods. This course has been designed with both new and experienced users in mind and utilises the power of our cloud based PET simulators for a hands on experience.

Target audience
Nuclear Medicine Technologists and Advanced Practitioners wishing to enhance their skills and knowledge of PET imaging.

Course content
- Flow Motion
- List Mode
- Respiratory Gating
- Image reconstruction
- Multiparametric Organ processing
- Hands-on exercises

Molecular Imaging

MI Clinical Excellence with *syngo*.via - Virtual Training and Classroom Training

1

1 Day Duration

This course will equip Nuclear Medicine Technologists with advanced knowledge in the functionality of *syngo*.via. Through the use of demonstrations, lectures and exercises, participants will learn a vast variety of different clinical workflows including MM Reading and MM Oncology.

Target audience
Nuclear Medicine Technologists and Advanced Practitioners wishing to enhance their skills on advanced visualisation with *syngo*.via.

Course content
- Users and Roles
- Administration Portal
- Patient Browser and *syngo*.via interfcae
- MM Oncology - overview, layouts, case navigation and comparison studies
- MM Neurology - overview, comparison, SiSCom subtraction, Amyloid Plaque Analysis, Striatal Analysis
- MM Cardiology - Cedars, Corridor 4DM
- MI Reading - functionality and Organ Processing
- Hands-On exercises with *syngo*.via

Molecular Imaging

MI SPECT Advanced Workflows – Virtual Training and Classroom Training

2

2 Day Duration

This course is designed for Nuclear Medicine Technologists who are experienced with using Siemens Healthineers systems and who aim to advance their knowledge in the key features and functions of their MI Workstation. Participants will gain proficiency in acquisition, processing tasks and learn how to successfully build their own workflow applications through hands-on exercises on individual workstations.

Target audience
This training is designed for current users with established systems to increase their knowledge and successfully utilise key features and functions of the MI Apps Workplace.

Course content
- Activities and workflows
- Hands-on exercises - Flexible Display
- Advanced Reconstruction Methods
- Workflow building exercises
- 3D Taskcard and Image Optimisation
- CT Image Quality
- CT Dose Reduction
- Hands-On Exercises with MI SPECT Simulators

Molecular Imaging

MI SPECT/CT Myocardial Perfusion – Virtual Training and Classroom Training

1

1 Day Duration

Myocardial perfusion scanning plays a significant role in diagnostic and therapeutic decision making in cardiac disease. Participants will gain proficiency in acquisition, processing tasks and learn some tips and tricks in streamlining the myocardial perfusion workflow on Siemens Healthineers SPECT/CT systems.

Target audience
This training is designed for current users with established systems to increase their knowledge and become proficient in SPECT/ CT Myocardial Perfusion procedures.

Course content
- Introduction to the Heart
- Scanning Considerations
- Acquisition Techniques
- Image processing
- Corridor 4DM
- Cedars
- Hands-on Workstation
- Exercises and practice

Magnetic Resonance Imaging

MR Essential Scanning - Virtual and In Person Training

1

1 Day Duration

This course explores the fundamental relationships connecting imaging parameters in our Siemens Healthineers MR user interface to their related MR principles. Using demonstrations, lectures and hands-on exercises with simulation consoles, participants will learn about scanner hardware and software, safety considerations, acceleration options, SAR management as well as tips and tricks for improving image quality.
We strongly recommended completing this course before attending the MR Advanced Scanning course (regardless of experience).

Target audience
Radiographers who are new to MR Scanning or those new to the Siemens Healthineers MR Platform and wish to increase their skills on the XA hardware and software platforms.

Course content
- Basic Physics and Image formation
- Scanner Hardware
- DOT Cockpit
- *Syngo* User Interface
- Acceleration Techniques
- Introduction to MR Safety
- SAR
- Hands-on exercise using a MR Simulator

This training is approved for CPD Credits with the Australian Society of Medical Imaging and Radiation Therapy.

Magnetic Resonance Imaging

MR Essential Safety: Next Steps - Virtual and In Classroom Training

1

1 Day Duration

This course presents exercises and workshops on B1+rms, pacemaker function and scanning, MR safety policy writing, suite layout for safety plus updates, and a review of the essential MRI safety. A 30 minute multiple choice exam is also included. Developed by Dr. Donald McRobbie, the course has been specifically tailored for Australian and New Zealand healthcare professionals working in a MR department.

Target audience
New and current MR radiographers as well as those working in a MR imaging unit, who wish to expand their current MR Safety knowledge.

Course content
- Fields and Forces: Basic Physical Interactions
- Bioeffects Review and Update
- SAR and B1+rms masterclass
- Pregnancy and contrast safety update
- Other Hazards
- Writing a MR Safety policy
- Passive Resistance
- Active Implants and electrical resistance
- MRI Suite design
- The 3 roles model in Australia
- Exercises and test

This training is approved for CPD Credits with the Australian Society of Medical Imaging and Radiation Therapy.

Magnetic Resonance Imaging

MR Essential Physics

2

2 Day Duration

Aimed at users of Siemens Healthineers MR equipment, this two day course will guide registrants through the complexities of MR physics, covering all the essential aspects required to enhance their understanding of clinical applications. Topics covered include basic and advanced image formation, k-space and its applications, artefact avoidance, image optimisation, fundamental physics, basic and advanced pulse sequences, MR hardware developments and MR safety. Led by world renowned MR educator and author Dr. Donald McRobbie, participants will gain insight into the essence of MR technology through intuitive teaching, workshops and hands-on sessions using MR console simulators.

Target audience
MRI radiographers new to or those wishing to gain an in-depth knowledge of MR Physics. This course would also be suitable for Physicists working in a MR Clinical setting.

Course content
- Basic Scanning and Jargon busting
- Spaced out - Image Formation
- Artifacts and how to avoid them
- k-space and its applications
- Parallel Acquisition Techniques
- Image optimisation workshop
- Resonance and relaxation
- Spin Echo and Gradient Echo
- Diffusion weighting
- Water and Fat
- MR Safety Workshop

This training is approved for CPD Credits with the Australian Society of Medical Imaging and Radiation Therapy.

Magnetic Resonance Imaging

MR Advanced Scanning

3

3 Day Duration

Through the use of demonstrations, lectures and hands on exercises using simulation consoles, participants will learn about sequences, parameter manipulation, iPAT, applications tips for improving image quality and specific clinical applications.
We strongly recommended participants complete the MR Essential Scanning course before attending this course (regardless of experience).

Target audience
Radiographers who wish to extend their knowledge of MR and learn a variety of advanced scanning techniques and applications to enhance their ability to perform complex examinations with confidence.

Course content
- Advanced Sequences and Hands-on exercises
- Parameter Optimisation and Hands on exercises
- Unlocking parameters and Hands-on exercises
- Positioning Modes
- Fat saturation techniques
- SAR
- 3T imaging
- Acceleration Techniques and Hands-on exercises
- Compressed Sensing
- Radial Trajectories and Hands-on exercises
- MR Angiography Contrast and Non-Contrast Techniques
- EPI and Hands-on exercises

This training is approved for CPD Credits with the Australian Society of Medical Imaging and Radiation Therapy.

Magnetic Resonance Imaging

MR Cardiac

3

3 Day Duration

This three day course introduces cardiac MR to both a first time user and those with previous experience in CMR. Through the use of presentations, demonstrations and practical exercises on the simulator, the participants will learn the basic principles and workflow for cardiac examinations. They will be able to select appropriate sequences for the clinical indication and modify the sequence for particular patient conditions. Basic post processing may be included using Argus or *syngo*.via.

Target audience
MR Radiographers who are new to and those who wish to extend their knowledge of MR Cardiac Imaging. This course would also support those who wish to begin a MR cardiac service. This course will increase the ability of participants to perform examinations with confidence and ease.

Course content
- Overview on Cardiac MR and planning
- Cardiac Function and Ventricular Analysis
- VF and Flow post-processing
- Cardiac Morphology
- CMR Viability
- Cardiac Perfusion
- Cardiac scanning 3T
- Coronary Artery Imaging
- Cardiac DOT Engine
- Hands-on training with MR Simulators

This training is approved for CPD Credits with the Australian Society of Medical Imaging and Radiation Therapy.

Magnetic Resonance Imaging

MR Prostate - Virtual and In Classroom Training

1

1 Day Duration

This one day workshop is designed to provide participants with essential knowledge in prostate scanning, PI-rads guidelines, and scoring system requirements. Through a series of presentations and hands - on exercises, participants are provided with detailed knowledge of MRI Prostate workflows for MAGNETOM 1.5 and 3T systems including diffusion and T2, coil optimisation and post-processing for tissue 4D.

Target audience
Radiographers who perform prostate MR looking to increase their knowledge and skills to produce reliable prostate scans or those looking to start scanning MR prostate in their clinical setting.

Course content
- PI-rads scoring system
- Techniques and building of strategies/sequences for system optimisation
- Matrix optimisation for T2 and Diffusion imaging
- High-B value acquisitions using 4 scan trace and resolve
- Hand-on simulator exercises
- Review of Clinical Studies
- Hands-on with *syngo*.via post processing of scans
- Artifact Correction

This training is approved for CPD Credits with the Australian Society of Medical Imaging and Radiation Therapy.

Magnetic Resonance Imaging

MR Breast - Virtual and In Classroom Training

1

1 Day Duration

This one day course is designed to provide users with a solid grounding in performing and improving breast MR. This course is delivered through a range of presentations which cover basic anatomy, pathology and MR imaging techniques. This course also contains detailed information on how to best optimise protocols for the assessment of lesions as well as the various techniques to optimise breast implant integrity. Biopsy techniques and fat sat optimisation is also covered.

Target audience
Radiographers who perform breast MR looking to increase their knowledge and skills or those looking to start scanning MR breast in their clinical setting.

Course content
- Introduction to breast imaging and coil options
- Breast MR Technique - Screening
- Breast MR Technique - Abbreviated
- Silicone Imaging
- Hands-on exercise with a MR Simulator
- Breast Biopsy
- Breast DOT engine

This training is approved for CPD Credits with the Australian Society of Medical Imaging and Radiation Therapy.

Magnetic Resonance Imaging

MR Neuroimaging

1

1 Day Duration

This one-day MR Neuroimaging class is designed for the experienced MR *syngo* user. The class will focus on Neuro applications for the MAGNETOM 1.5T and 3T systems. This course incorporates a combination of lecture, demonstrations and hands-on simulations to post-process perfusion, ASL, BOLD, Diffusion Tensor Imaging, Tractography and Spectroscopy data sets with an emphasis on workflow.

Target audience
MR Radiographers who wish to extend their knowledge of neuroimaging techniques and learn a variety of advanced scanning techniques and applications to enhance their ability to perform complex examinations with confidence.

Course content
- Neuroimaging Sequences Set up
- Perfusion and Diffusion Imaging Sequences
- Spectroscopy Sequences
- fMRI Sequences and setup
- Hands-on training with MR Simulators
- fMRI Hands-on with MR Simulators

This training is approved for CPD Credits with the Australian Society of Medical Imaging and Radiation Therapy.

Magnetic Resonance Imaging

MR Clinical Excellence with *syngo*.via

2

2 Day Duration

This two day course is designed to provide an introduction to the basic architecture and functionality of *syngo*.via. Upon completion of the course the attendee will be able to edit "Workflows" for customised image visualisation and perform basic image post-processing. A full range of Advanced MRI post-processing Workflows will be covered, exposing the attendee to the latest image visualisation software packages and techniques.

Target audience
Radiographers new to or already working in the MR clinical setting who wish to increase and expand their image workup utilising *syngo*.via advanced visualisation.

Course content
- Introduction to *syngo*.via
- Clinical Administration
- MM Reading - Overview and Hands-On.

This training is approved for CPD Credits with the Australian Society of Medical Imaging and Radiation Therapy.

Digital Health

Introduction to Digital Health

A partnership between Monash University and Siemens Healthineers.

Now more than ever, technology drives innovation in health.

How do we translate electronic patient data into meaningful insights? What digital biomarkers can we track with wearables? Why does some medtech thrive, while others fail?

Introduction to Digital Health is a fully-online credential exploring the intersection between health and technology. You'll be kept up-to-date with the latest technology and digital trends in healthcare, and discover how to apply them in your workplace. It's designed specifically for clinicians, allied health practitioners, technicians or those working in professional roles within the health sector.

Siemens Healthineers has collaborated exclusively with Monash University to create this module. Participants will benefit from Monash University's educational expertise and Siemens Healthineers' global expertise in Digitising Healthcare. Whether you're looking to upskill, retrain or take your career in a new direction, this unit will give you the skills and knowledge to harness new and emerging technology to improve health outcomes.

Course content

- Introduction to digital health
- Digital Biomarkers
- Patient empowerment in digital health
- EMR and digital health
- Data, data science and artificial intelligence
- Future directions for digital health

By successfully completing the assessed version of this module, you'll receive 6 credit points. If you have a relevant bachelor's degree, you can choose to use this towards a Monash graduate degree – getting you closer to a Master of Public Health or Master of Health Management faster.

Register now
monash.edu/medicine/digital-health

Ultrasound

Ultrasound Workshops

Delivered by leading Sonographers, Radiologists and Specialists in their field, these workshops deliver dedicated training on a variety of topics. These workshops have a theoretical components to provide adequate background on the selected topic and also have a clinical and interactive component to enhance your learning and skills. The attendees will be guided through a series of carefully selected cases and become familiar with the common pathologies, unusual findings and optimal imaging techniques.

Target audience
Sonographers, Radiologists and Specialists who are new to, and wish to expand their knowledge in their field of expertise. These courses are a must for those who want to enhance their skills and knowledge in a small hands-on environment.

Course content
- Theory and image quality
- Review of carefully selected courses
- Hands-on experience and training on dedicated Ultrasound systems
- Support from an Ultrasound Applications Specialist within the class.

Previous Courses held:
- Interpreting Musculoskeletal Ultrasound
- Obstetric Ultrasound: Hearts and Minds
- Advanced Abdomen
- Upper Limb MSK
- Live Scanning Workshop.

Siemens Healthineers
Level 3, 141 Camberwell Rd, Hawthorn East, VIC 3123
siemens-healthineers.com/en-au/education/fixture

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