

Training Catalogue (Medical Imaging)

(Virtual & Engish)

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Application Training:

- **CT**
- MRI
- SPECT CT
- PET CT
- XP
- US
- Angiography <u>Technical Training:</u>
- **CT**
- MRI





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Mars Medical Service is a Medical Company created in 2013 based in Tunisia.

Our task is to support Siemens Healthineers **Customers in Application Trainings for Medical** Imaging Products in three Languages (Arabic, English and French).

We cover the following Modalities: CT, MR, MI-SPECT, MI-PET, XP Radiography, XP Fluoroscopy, XP Mobile X-Ray, XP C-Arms, XPWH Mammography, Angiography and Ultrasound.

For further information's:



Mokhtar.mars@mms.tn



https://www.facebook.com/MedicalMms

Mars Medical Services (MMS) is certified ISO 9001: 2015 Since 2018.





ID 9108653491



Training Team



Mokhtar MARS

- Engineer
- Master Degree in Radiophysics & Biophysics
 & Medical Imaging
- Doctor in Medical Imaging
- CT Senior Application Specialist
- MR Senior Application Specialist
- Service Engineer in CT & MRI



Souha GHARBI

- Biomedical License
- Master Degree in Biomedical Engineering
- Master Degree in Radiophysics & Biophysics & Medical Imaging
- Doctor in Medical Imaging (PhD)
- XP & AT Application Specialist
- CT Application Specialist



Wifek Boumrifek

- X-Ray Technologist
- Master Std in Radiophysics & Biophysics & Medical Imaging
- US Application Specialist
- MR Application Specialist





Mondher TELMOUDI

- Engineer
- PhD Student
- MI SPECT Application Specialist
- MI PET Application Specialist
- CT Application Specialist
- MRI Service Engineer



Zeineb Tbini

- Biomedical License
- Master Degree in Radiophysics & Biophysics & Medical Imaging
- Doctor in Medical Imaging
- XPWH Application Specialist
- MR Application Specialist

Training Catalogue

Training Description	Code	Training Location	Duration	Date	Page
Application Training : MRI					
MR Basic	MRBASE5	Virtual	5 days		2
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MR Cardiac	MRCARDIAC2	Virtual	2 days		<u>9</u>
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MR View&Go	MRVIEWGO2	Virtual	2 days		<u>11</u>
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Application Training : CT					
CT Basic	CTBASIC5	Virtual	5 days		<u>15</u>
CT Cardiac	CTCARDIAC2	Virtual	2 days		<u>16</u>
CT Dual Energy	CTDE2	Virtual	2 days		<u>17</u>
CT Protocols	CTPROTOCOGO5	Virtual	5 days		<u>18</u>
CT View&Go	CTVIEWGO2	Virtual	2 days		<u>19</u>
CT Syngo Via	CTVIA5	Virtual	5 days		<u>20</u>
Application Training : SPECT CT					
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PET CT	PETCT5	A distance	5 days		<u>26</u>
Application training : Radiography & Fluoroscopy					
Radiolography	XPRADIO2	Virtual	2 days		<u>29</u>
Mobile X-Ray	XPMOBILE1	Virtual	1 day		<u>30</u>
Fluoroscopy & Radiography	XPRADIOSCOPY2	Virtual	2 days		<u>31</u>
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C-Arms	XPCARM2	Virtual	2 days		<u>37</u>
Application Training : Angiography					
Angiography	ANGIOBASE5	Virtual	5 days		<u>40</u>
Application Training : Ultrasound					
Ultrasound	USECHO3	Virtual	3 days		<u>43</u>
Technical Training: MRI					
MR Technical	MRTECHNIQUE5	Virtual	5 days		<u>46</u>
MR Quality Control	MRQUALITY3	Virtual	3 days		<u>47</u>
Technical Training:CY					
CT Technical	CTTECHNIQUE5	Virtual	5 days		<u>50</u>







Application Training Catalogue MR





In order to make the most of your medical imaging equipment, maintain a good academic level of your team and improve productivity while guaranteeing diagnostic image quality, adequate and effective training is essential.

Our training, provided by speakers with different and complementary profiles (Doctors in medical imaging, Biophysics and Radiophysics, Engineers and Health executives) aims to meet your needs on several aspects:

- The first part concerns the operating principle of the MRI equipment.

- The second deals with the manipulation and optimization of acquisition protocols including image quality parameters.

- The third part concerns the mastery of post-processing software.

We support you with On-site or remotely trainings according to your needs.



MRI Basic (5 days) Code: MRBASE5



TRAINING CONTENT:

- MR Basic.
- MR Sequences.
- Image Quality Parameters.
- artifacts.
- fat Sat Techniques.
- Angiography.
- Diffusion
- Protocols

TARGET GROUP:

- X-Ray Technologist.
- Biomedical Engineer.
- Student in Medical Imaging.
- Radiologist
- Resident in Radiology

Training Material :

Documents

PREREQUISITE:

General Knowledge in Radiology.

DURATION:

5 days (15:00-20:00): Virtual

Detailed Training Program

Day 1: 15h00 - 20h00

- MR Basics.
- Spin Echo Sequence.
- Spin Echo Sequence Weighting.
- K space.
- Tissues Signal in MRI.
- MR System Component.

Day 2: 15h00 - 20h00

- Sequence TSE, Restore, Haste.
- Sequence Inversion Recovery (IR, STIR, FLAIR).
- Sequence Gradient Echo.
- Fat Sat Techniques.
- Mapping (T1, T2, T2*).
- Parallel Acquisition Techniques.
- Diffusion

Day 3: 15h00 - 20h00

- Contrast.
- Spatial Resolution.
- Acquisition Time.
- Signal to Noise Ratio.
- MR Safety.

TRAINING FEES:

300,00 USD for medical imaging students.
500,00 USD or residents and technicians in Radiology.
600,00 USD for Engineers and Medical Radiologists.

Day 4: 15h00 - 20h00

- Metal Artifact.
- Aliasing Artifact.
- Movement Artifact.
- Chemical Shift Artifact.
- Truncation Artifact.
- Magnetic Susceptibility Artifact.
- Angiography Time Of Flight.
- Angiography Phase Contrast.
- Test Bolus / Bolus Tracking
- Angiography Dynamic.
- Angiography Native.

Day 5: 15h00 - 20h00

- Protocol Brain.
- Protocol Breast.
- Protocol Abdomen.
- Perfusion T2* (DSC).
- Evaluation Perfusion T2*.





MR Advanced Neuro (5 days) Code: MRNEURO5

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TRAINING CONTENT:

- Diffusion.
- Tractography.
- Perfusion.
- Bold.
- Spectroscopy.

TARGET GROUP:

- X-Ray Technologist.
- Student in Medical Imaging.
- Radiologist
- Resident in Radiology

Training Material :

Documents

PREREQUISITE:

General Knowledge in MRI.

DURATION:

• 5 days (15:00-20:00): Virtual



Detailed Training Program

Day 1: 15h00 - 20h00

- MRI Basics.
- Spin Echo Sequence.
- Spin Echo Sequence Weighting.
- K-Space.
- Mapping T1, T2 et T2*.

Day 2: 15h00 - 20h00

- Principle of Diffusion.
- Evaluation of Diffusion Syngo Classic.
- Evaluation of Diffusion Syngo Via.
- Principle of Tractography.
- Evaluation of Tractography Syngo Classic.
- Evaluation of Tractography Syngo Via.

Day 3: 15h00 - 20h00

- Principle of Perfusion T2* (DSC).
- Evaluation Perfusion T2* Syngo Via.
- Principle of Perfusion T1 (DCE).
- Evaluation Perfusion T1 Syngo Via.
- Principle of Perfusion ASL.
- Evaluation Perfusion ASL.

Day 4: 15h00 - 20h00

- Basics of spectroscopy.
- Acquisition of spectroscopy.
- pre-processing in spectroscopy.
- Metabolites.
- Brain Spectroscopy.
- Prostate Spectroscopy.

Day 5: 15h00 - 20h00

- Breast Spectroscopy.
- Evaluation Spectroscopy Syngo Classic.
- Evaluation Spectroscopy Syngo Via.
- Principle of Bold (fMRI).
- Acquisition Bold (fMRI)
- Evaluation Bold (fMRI)

TRAINING FEES:

300,00 USD for medical imaging students.
500,00 USD or residents and technicians in Radiology.
600,00 USD for Medical Radiologists.





MR Cardiac (2 days) Code: MRCARDIAC2

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TRAINING CONTENT:

- Cardiac Anatomy & Physiology.
- Cardiac Sequences.
- Cardiac Morphology.
- Cardiac Cine.
- Cardiac Tagging.
- Cardiac Perfusion First Pass.
- Cardiac Delayed Enhancement.
- Cardiac Flow.

TARGET GROUP:

- X-Ray Technologist.
- Student in Medical Imaging.
- Radiologist
- Resident in Radiology

Training Material :

Documents

PREREQUISITE:

• General Knowledge in MRI.

DURATION:

• 2 days (15:00-20:00): Virtual

Detailed Training Program

Day 1: 15h00 - 20h00

- MR Cardiac Safety.
- Cardiac anatomy.
- Cardiac Physiology.
- Patient Preparation & ECG.
- Localisation
- Cardiac Sequences
- Morphology
- Cine
- Perfusion First Pass.

Day 2: 15h00 - 20h00

- Delayed enhancement.
- Tagging.
- Coronary.
- Cardiac Flow
- Mapping T1, T2 and T2*.
- Post-Processing.



TRAINING FEES:

200,00 USD for medical imaging students.
300,00 USD or residents and technicians in Radiology.
350,00 USD for Medical Radiologists.



MR Protocols (5 days) Code: MRPROTOCOLE5

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TRAINING CONTENT:

- Image Quality Parameters
- Artifacts.
- Protocols Optimization.
- Routine Protocols.

TARGET GROUP:

- X-Ray Technologist.
- Student in Medical Imaging.
- Radiologist
- Resident in Radiology

Training Material :

Documents

PREREQUISITE:

General Knowledge in MRI.

DURATION:

• 5 days (15:00-20:00): Virtual

Detailed Training Program

Day 1: 15h00 - 20h00

- Protocol Brain Routine.
- Protocol Inner Ear.
- Protocol Sella.
- Protocol Epilepsy.
- Protocol MS.
- Protocol Stroke.
- Protocol Brain Tumor.

Day 2: 15h00 - 20h00

- Protocol Cavum.
- Protocol Brachial Plexus.
- Protocol Shoulder.
- Protocol Cervical Spine.
- Protocol Thorax.
- Protocol Breasts.
- Protocol Thoracic Spine.
- Protocol Lumbar Spine.
- Protocol SI joint.

Day 3: 15h00 - 20h00

- Protocol Cardiac.
- Protocol Abdomen Multi-phases.
- Protocol Abdomen MRCP.
- Protocol Prostate.
- Protocol Pelvis Female.
- Protocol Hips.

Day 4: 15h00 - 20h00

- Protocol Elbow.
- Protocol Knees.
- Protocol hand/Wrist.
- Protocol Ankle / Foot.

Day 5: 15h00 - 20h00

- Protocol Angio Brain.
- Protocol Angio Thorax / Abdomen.
- Protocol Angio Renal.
- Protocol Angio Lower Limbs.

TRAINING FEES:

300,00 USD for medical imaging students.
500,00 USD or residents and technicians in Radiology.
600,00 USD for Engineers and Medical Radiologists.

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MR View&Go (2 days) Code: MRVIEWGO2

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TRAINING CONTENT:

- MR View&Go.
- Post-Processing 2D.
- Post-Processing 3D.

TARGET GROUP:

- X-Ray Technologist.
- Student in Medical Imaging.
- Radiologist
- Resident in Radiology

Training Material :

Documents

PREREQUISITE:

General Knowledge in MRI.

DURATION:

• 2 days (15:00-20:00): Virtual

Detailed Training Program

Day 1: 15h00 - 20h00

- * Patient Browser:
- General View.
- Tools in Upper Right Corner
- Tools with RMB.
- Layouts.
- Series Navigator.
- Filming.
- Distribution.

Day 2: 15h00 - 20h00

- •Image Segment.
- View&Go: Tools in Upper Right Corner.
- View&Go: Tools in Lower Right Corner.
- View&Go: Tools in Upper Left Corner.
- View&Go: Tools in Lower Left Corner.
- Context Menu
- Favorite Tools.
- Zones
- Composing.
- b & ADC Calculation.
- Alignment.
- Image Fusion.
- Dynamic Evaluation.

TRAINING FEES:

150,00 USD for medical imaging students.
200,00 USD or residents and technicians in Radiology.
300,00 USD for Medical Radiologists.



MR Syngo Via (5 days) Code: MRSYNGOVIA5

TRAINING CONTENT :

- Post-Processing 2D et 3D.
- Dynamic Evaluation
- MR Breast, MR Brevis
- Cardiac

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- Composing
- Neuro 3D Bold
- Neuro 3D Tractography
- MR Neurology
- MM Oncology, Prostate, Spectroscopy.
- Tissue4D, Whole Spine Vascular).

TARGET GROUP:

- X-Ray Technologist.
- Student in Medical Imaging.
- Radiologist
- Resident in Radiology

Training Material :

Documents

PREREQUISITE:

General Knowledge in MRI.

DURATION:

• 5 days (15:00-20:00): Virtual



Detailed Training Program

Day 1: 15h00 - 20h00

- * Patient Browser:
- General View.
- Tools in Upper Right Corner
- Tools with RMB.
- Layouts.
- Series Navigator.
- Filming.
- Distribution.

Day 2: 15h00 - 20h00

•Image Segment.

- View&Go: Tools in Upper Right Corner.
- View&Go: Tools in Lower Right Corner.
- View&Go: Tools in Upper Left Corner.
- View&Go: Tools in Lower Left Corner.
- Context Menu
- Favorite Tools.

Day 3: 15h00 - 20h00

- Option Dynamic.
- Option Breast.
- Option Brevis.
- Option Cardiac.
- Option Composing.

Day 4: 15h00 - 20h00

- Option Bold.
- Option Tractography.
- Option Neurologie
- Option MM Oncologie.

Day 5: 15h00 - 20h00

- Option Prostate.
- Option Spectroscopy.
- Option Tissue4D.
- Option Whole Spine.

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• Option Vascular.



300,00 USD for medical imaging students.
500,00 USD or residents and technicians in Radiology.
600,00 USD for Medical Radiologists.

<u>www.mms.tn</u>





Application Training Catalogue Computed Tomography (CT)





In order to make the most of your medical imaging equipment, maintain a good academic level of your team and improve productivity while guaranteeing diagnostic image quality, adequate and effective training is essential. Our training, provided by speakers with different and complementary profiles (Doctors in medical imaging, Biophysics and Radiophysics, Engineers and Health executives) aims to meet your needs on several aspects:

- The first aspect concerns the operating principle of the CT Scanner.

- The second deals with the manipulation and optimization of acquisition protocols including image quality parameters.

- The third aspect concerns the post-processing software.

We support you with On-site or remotely trainings according to your needs.



CT Basics (5 days) CODE : CTBASIC5

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TRAINING CONTENT:

- CT Basics.
- Acquisition and Reconstruction Parameters.
- Acquisition Modes.
- Dose Reduction Techniques.
- Noise Reduction Techniques.
- Angiography.
- Different options.
- Dual Energy.

TARGET GROUP:

- X-Ray Technologist.
- Biomedical Engineer.
- Student in Medical Imaging.
- Radiologist
- Resident in Radiology

Training Material :

Documents

PREREQUISITE:

General Knowledge in X-Ray.

DURATION: • 5 days (15:00-20:00): Virtual



Detailed Training Program

Day 1: 15h00 - 20h00

- CT Basic.
- Different Acquisition Modes.
- Acquisition & Reconstruction Parameters.
- Image Quality Criteria's.
- CT System Components.

Day 2: 15h00 - 20h00

- Dose in CT.
- Dose Reduction Techniques.
- CareDose 4D.
- Care KV.
- mAs Modulation.
- Filter.
- Iterative Reconstruction.
- SAFIRE, ADMIRE.
- Optimization of protocols.

Day 3: 15h00 - 20h00

- Basics of Angiography.
- Test Bolus & Bolus Tracking.
- Injection Parameters.
- Brain Angio.
- Abdomen Angio.
- Pulmonary Embolism Angio.
- Lower Limb Angio.

Day4: 15h00 - 20h00

- Principle & Evaluation Dental.
- Principle & Evaluation Colonoscopy.
- Principle & Evaluation Osteo.
- Principle & Evaluation Brain Perfusion.

Day 5: 15h00 - 20h00

- Principle of Dual Energy.
- Principle and evaluation DE Kidney Stones.
- Principle and evaluation DE Bone Removal.
- Principle and evaluation DE Pulmonary Embolism.
- Principle and evaluation DE Virtual Non Contrast.

TRAINING FEES:

300,00 USD for medical imaging students.
500,00 USD or residents and technicians in Radiology.
600,00 USD for Engineers and Medical Radiologists.



CT Cardiac (2 days) CODE : CTCARDIAC2

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TRAINING CONTENT:

- Principle of Angiography.
- Anatomy & physiology of the Heart.
- Acquisition Protocols.
- Acquisition and reconstruction.
- Post-Processing (Calcium Scoring, Coronary, Cardiac Function).

TARGET GROUP:

- X-Ray Technologist.
- Student in Medical Imaging.
- Radiologist
- Resident in Radiology

Training Material : • Documents

PREREQUISITE:

• General Knowledge in X-Ray and CT.

DURATION: • 2 days (15:00-20:00): Virtual

Detailed Training Program

Jour 1 : 15h00 - 20h00

- CT Angiography Principle.
- Test Bolus & Bolus Tracking.
- Injection Parameters.
- Heart Anatomy.
- Patient Preparation
- Acquisition Protocols.
- TAVI

Jour 2 : 15h00 - 20h00

- Reconstruction.
- Artefacts.
- Tips & Tricks.
- Evaluation Calcium Score.
- Evaluation Coronary.
- Evaluation Cardiac Function.
- Evaluation TAVI

TRAINING FEES:
150,00 USD for medical imaging students.
200,00 USD or residents and technicians in Radiology.
300,00 USD for Medical Radiologists.



CT Dual Energy (2 days) CODE: CTDE2



TRAINING CONTENT:

- Dual Energy Principle.
- Different acquisition techniques.
- Acquisition Protocols.

• Dual energy Post-Processing (Bone Removal Head & body, Kidney Stones, Gout, Heart Perfusion, Pulmonary Embolism, Hard Plaques, Haemorrhage, Virtual Non Contrast).

TARGET GROUP:

- X-Ray Technologist.
- Student in Medical Imaging.
- Radiologist
- Resident in Radiology

Training Material :

- Documents
- **PREREQUISITE:**
- General Knowledge in X-Ray and CT.

DURATION:

• 2 days (15:00-20:00): Virtual

Detailed Training Program

Day 1: 15h00 - 20h00

- Principle of dual Energy (DE).
- Acquisition Techniques in Dual Energy (DE).
- Optimum Contrast.
- Mono-Energetic.
- Principle & Acquisition DE Bone Removal (Brain & Body).
- Evaluation DE Bone Removal.
- Principle & Acquisition DE Kidney Stones.
- Evaluation DE Kidney Stones.

Day 2: 15h00 - 20h00

- Principle & Acquisition DE Gout.
- Evaluation DE Gout.
- Principle & Acquisition DE Heart Perfusion.
- Evaluation DE Heart Perfusion.
- Principle & Acquisition DE Pulmonary Embolism.
- Evaluation DE Pulmonary Embolism.
- Principle & Acquisition DE Hard Plaques.
- Evaluation DE Hard Plaques.
- Principle & Acquisition DE Hemorrhage.
- Evaluation DE Hemorrhage.
- Principle & Acquisition DE Virtual Non Contrast.
- Evaluation DE Virtual Non Contrast.

TRAINING FEES:

150,00 USD for medical imaging students.
200,00 USD or residents and technicians in Radiology.
300,00 USD for Medical Radiologists.



Application Training CT Protocols (Somatom Go Family from Siemens) (5 days) CODE : CTPROTOCOGO5



TRAINING CONTENT:

- Acquisition and Reconstruction Parameters.
- Routine Protocols.
- Angiography Protocols.

TARGET GROUP:

- X-Ray Technologist.
- Student in Medical Imaging.
- Radiologist
- Resident in Radiology

Training Material :

Documents

PREREQUISITE:

General Knowledge in X-Ray and CT.

DURATION:

• 5 days (15:00-20:00): Virtual



Day 1 : 15h00 - 20h00

- Topogram.
- Tomogram.
- Acquisition Parameters.
- Reconstruction Parameters.

Day 2 : 15h00 - 20h00

- Protocol Head Routine.
- Protocol IAC.
- Protocol Sinus.
- Protocol Orbit.
- Protocol TMJ.
- Protocol Trauma.
- Protocole Lumbar Spine.
- Protocole Cervical Spine.

Day 3 : 15h00 - 20h00

- Protocol Thorax.
- Protocol Abdomen Multi-Phases.
- Protocol Pelvimetry.

Day 4 : 15h00 - 20h00

- Injection Parameters
- Protocol Angio Head & Carotids.
- Protocol Angio Abdomen.
- Protocol Pulmonary Embolism.
- Protocol Angio Lower Limbs
- Protocol Neck Biphasic.

Day 5 : 15h00 - 20h00

- Protocol Hand.
- Protocol Wrist.
- Protocol Foot.
- Protocol Ankle.
- Protocol Knee.
- Protocol Shoulder.
- Protocol Hip.
- Protocol Osteo.

TRAINING FEES:

300,00 USD for medical imaging students.
500,00 USD or residents and technicians in Radiology.
600,00 USD for Medical Radiologists.



CT View&Go (Somatom Go Family) (2 days) CODE: CTVIEWGO2

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TRAINING CONTENT:

- CT View&Go.
- 2D Post-Processing
- 3D Post-Processing

TARGET GROUP:

- X-Ray Technologist.
- Student in Medical Imaging.
- Radiologist
- Resident in Radiology

Training Material :

Documents

PREREQUISITE:

General Knowledge in CT.

DURATION:

• 2 days (15:00-20:00): Virtual

Detailed Training Program

Day 1: 15h00 - 20h00

- * Patient Browser:
- General View.
- Tools in Upper Right Corner
- Tools with RMB.
- Layouts.
- Series Navigator.
- Filming.
- Distribution.

Day 2: 15h00 - 20h00

- •Image Segment.
- View&Go: Tools in Upper Right Corner.
- View&Go: Tools in Lower Right Corner.
- View&Go: Tools in Upper Left Corner.
- View&Go: Tools in Lower Left Corner.
- Context Menu
- Favorite Tools.
- Zones
- Neuro DSA
- Endoscopic View.
- Bone Removal.
- Region Growing.
- Calcium Scoring.
- Lung CAD
- Threshold HU

TRAINING FEES:

150,00 USD for medical imaging students.
200,00 USD or residents and technicians in Radiology.
300,00 USD for Engineers and Medical Radiologists.



CT Syngo Via (5 days) CODE: CTVIA5

TRAINING CONTENT:

• CT Syngo Via (Dental, Colonoscopy, Vascular, Brain Perfusion, Body Perfusion, Calcium Scoring, Coronary, Cardiac Function, Dynamic Angio, Neuro DSA, MM Oncology, Double Energy).

- Post-Processing 2D.
- Post-Processing 2D.

TARGET GROUP:

- X-Ray Technologist.
- Student in Medical Imaging.
- Radiologist
- Resident in Radiology

Training Material :

Documents

PREREQUISITE:

General Knowledge in CT.

DURATION:

• 5 days (15:00-20:00): Virtual



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Detailed Training Program

Day 1: 15h00 - 20h00

- * Patient Browser:
- General View.
- Tools in Upper Right Corner
- Tools with RMB.
- Layouts.
- Series Navigator.
- Filming.
- Distribution.

Day 2: 15h00 - 20h00

- •Image Segment.
- View&Go: Tools in Upper Right Corner.
- View&Go: Tools in Lower Right Corner.
- View&Go: Tools in Upper Left Corner.
- View&Go: Tools in Lower Left Corner.
- Context Menu
- Favorite Tools.

Day 3: 15h00 - 20h00

- Option Dental.
- Option Colonoscopy.
- Option Vascular.
- Option Brain Perfusion.
- Option Body Perfusion.

Day 4: 15h00 - 20h00

• Option Calcium Scoring, Coronary, Cardiac Function.

- Option Dynamic Angio.
- Option Neuro DSA.

Day 5: 15h00 - 20h00

- Option MM Oncology.
- Option DE Optimum Contrast.
- Option DE Mono Energetic.
- Option DE Kidney Stones.
- Option DE Pulmonary Embolism
- Option DE Virtual Non Contrast (VNC).

TRAINING FEES:

300,00 USD for medical imaging students.
500,00 USD or residents and technicians in Radiology.
600,00 USD for Engineers and Medical Radiologists.







Application Training Catalogue SPECT-CT





In order to make the most of your medical imaging equipment, maintain a good academic level of your team and improve productivity while guaranteeing diagnostic image quality, adequate and effective training is essential.

Our training, provided by speakers with different and complementary profiles (doctors in medical imaging, biophysics and Radiophysics, engineers and health executives) aims to meet your needs on several aspects:

- The first part concerns the operating principle of Nuclear Medicine devices.

- The second deals with manipulation and acquisition including image quality parameters.

- The third part concerns the mastery of post-processing software.

We support you face-to-face or remotely according to your needs.



SPECT CT (Virtual) (5 days) CODE: SPECTCT5



TRAINING CONTENT:

- Molecular Imaging Principle.
- SPECT CT.
- Quality Assurance.

TARGET GROUP:

- X-Ray Technologist.
- Student in Medical Imaging.
- Nuclear Medicine Doctors
- Resident in Nuclear Medicine

Training Material :

Documents

PREREQUISITE:

General Knowledge in CT.

DURATION: • 5 days (15:00-20:00): Virtual

Detailed Training Program

Day 1: 15h00 - 20h00

- System Hardware overview
- System handling
- MI Apps
- Daily restart procedure
- Daily CT Quality Control Procedures
- Daily SPECT Quality Control Procedures
- •System Shutdown and Cleanup
- Patient Registration

Day 2: 15h00 - 20h00

- Patient Browser
- DICOM Protocol
- •UI Task cards (Examination, Viewing, 3D, Filming) SPECT Physics
- •CT Physics
- •Hot lab and radiopharmaceutical preparation
- •Patient preparation and injection

Day 3: 15h00 - 20h00

- Workflow overview
- •SPECT Examination Configuration
- •SPECT CT Activities
- •SPECT Acquisition and Reconstruction
- Parameters
- •CT Acquisition and Reconstruction Parameters
- •CT Dose

Day 4 : 15h00 - 20h00

- •General Acquisition and Processing
- •Cardiac Acquisition and Processing
- Syngo.via introduction

Day 5 : 15h00 - 20h00

- Preparing the system for quantification scans
- Quantification Exams
- •Syngo.via Reading
- •Syngo.via Ml

ジ TRAINING FEES:

300,00 USD for medical imaging students.
500,00 USD for residents and technicians in Radiology.
600,00 USD Nuclear Medicine Doctors.





Application Training Catalog PET-CT





In order to make the most of your medical imaging equipment, maintain a good academic level of your team and improve productivity while guaranteeing diagnostic image quality, adequate and effective training is essential.

Our training, provided by speakers with different and complementary profiles (doctors in medical imaging, biophysics and radiophysics, engineers and health executives) aims to meet your needs on several aspects:

- The first part concerns the operating principle of Nuclear Medicine devices.

- The second deals with manipulation and acquisition including image quality parameters.

- The third part concerns the mastery of post-processing software.

We support you face-to-face or remotely according to your needs.



PET CT (5 days) CODE : PETCT5



TRAINING CONTENT:

- Molecular Imaging Principle.
- PET CT.
- Quality Assurance.

TARGET GROUP:

- X-Ray Technologist.
- Student in Medical Imaging.
- Nuclear Medicine Doctors
- Resident in Radiology

Training Material : • Documents

PREREQUISITE:General Knowledge in CT.

DURATION: • 5 days (15:00-20:00): Virtual

Detailed Training Program

Day 1 : 15h00 - 20h00

- •System Hardware overview
- •System handling
- Daily restart procedure
- Daily CT Quality Control Procedures
- Daily PET Quality Control Procedures
- •System Shutdown and Cleanup
- PET Examination Configuration
- Patient Browser
- Patient Registration

Day 2: 15h00 - 20h00

- PET Physics
- CT Physics

•UI Task cards (Examination, Viewing, 3D, Filming, TrueD)

- Hot lab and radiopharmaceutical preparation
- Patient preparation and injection
- PET CT dose and dose reduction techniques
- Radiation protection

300,00 USD for medical imaging students.
500,00 USD for residents and technicians in Radiology.
600,00 USD Nuclear Medicine Doctors.

Day 3 : 15h00 - 20h00

- PET Acquisition and Reconstruction Parameters
- •CT Acquisition and Reconstruction Parameters
- Exam Acquisition Procedure
- PET Exams mode
- •Syngo.via introduction

Day 4 : 15h00 - 20h00

- Oncology Patients Acquisition
- Oncology Protocols
- Cardiac Patients Acquisition
- Cardiac Protocols
- •TrueD

Day 5 : 15h00 - 20h00

- Syngo.via Oncology
- •Syngo.via Cardiology
- Syngo.via Templates







Application Training Catalogue Radiography & Fluoroscopy





In order to make the most of your medical imaging equipment, maintain a good academic level of your team and improve productivity while guaranteeing diagnostic image quality, adequate and effective training is essential.

Our training, provided by speakers with different and complementary profiles (Doctors in medical imaging, Biophysics and Radiophysics, Engineers and Health executives) aims to meet your needs on several aspects:

- The first part concerns the operating principle of the equipment.

- The second deals with the manipulation and optimization of acquisition protocols including image quality parameters.

- The third part concerns the mastery of post-processing software.

We support you with On-site or remotely trainings according to your needs.



Radiography (2 days) CODE : XPRADIO2



TRAINING CONTENT :

- Basic Principle of Radiology.
- Acquisition Parameters.
- Dose Reduction Techniques.
- Post Processing.
- Different options.

TARGET GROUP:

X-Ray Technologist.Student in Medical Imaging.

Training Material :

Documents

PREREQUISITE:

General Knowledge in X-Ray.

DURATION : • 2 days (15:00-20:00): Virtual

Detailed Training Program

Day 1 : 15h00 - 20h00

- Basic of Radiology.
- System Overview.
- Security measure.
- System disinfection.
- Dose Basics.
- Dose reduction options.
- Radiation protection.

Day 2 : 15h00 - 20h00

- Image quality settings.
- Acquisition parameters.
- Post-processing tools.
- The TOMO acquisition.
- The Ortho option.
- Data transfer/archiving.
- Optimization of protocols

TRAINING FEES:
150,00 USD for medical imaging students.
200,00 USD for technicians in Radiology.





Mobile X-Ray (1 day) CODE : XPMOBILE1



TRAINING CONTENT :

- Basics of Radiology.
- Dose Reduction Techniques.
- Radiation Protection.
- Functional Description.

TARGET GROUP:

X-Ray Technologist.Student in Medical Imaging.

Training Material :

Documents

PREREQUISITE:

General Knowledge in X-Ray.

DURATION:

• 1 day (15:00-20:00): Virtual



Detailed Training Program

Jour 1 : 15h00 - 20h00

- Basic of Radiology.
- System overview.
- Security measure.
- System disinfection.
- Dose Basics.
- Radiation protection.
- Image quality settings.
- The different types of acquisitions
- Processing patient images.
- Data Transfer/Archiving.

TRAINING FEES:
100,00 USD for medical imaging students.
150,00 USD for technicians in Radiology.





Fluoroscopy & Radiography (2 days) CODE: XPRADIOSCOPY2



TRAINING CONTENT:

- Basic Principle of Radiology.
- Acquisition Parameters.
- Dose Reduction Techniques.
- Post Processing.
- Different options.

TARGET GROUP:

X-Ray Technologist.Student in Medical Imaging.

Training Material :

Documents

PREREQUISITE:

General Knowledge in X-Ray.

DURATION : • 2 days (15:00-20:00): Virtual



Day 1 : 15h00 - 20h00

- Basics of radiology & fluoroscopy.
- System overview.
- Security measure.
- System disinfection.
- Dose Basics.
- Dose reduction options.
- Radiation protection.

Day 2 : 15h00 - 20h00

- Acquisition parameters.
- Post-processing tools.
- Special examinations
- The TOMO acquisition.
- The Ortho option.
- DSA option
- Data transfer/archiving.
- Optimization of protocols

TRAINING FEES:
150,00 USD for medical imaging students.
200,00 USD for technicians in Radiology.





Application Training Catalogue Mammography



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In order to make the most of your medical imaging equipment, maintain a good academic level of your team and improve productivity while guaranteeing diagnostic image quality, adequate and effective training is essential.

Our training, provided by speakers with different and complementary profiles (Doctors in medical imaging, Biophysics and Radiophysics, Engineers and Health executives) aims to meet your needs on several aspects:

- The first part concerns the operating principle of the equipment.

- The second deals with the manipulation and optimization of acquisition protocols including image quality parameters.

- The third part concerns the mastery of post-processing software.

We support you with On-site or remotely trainings according to your needs.



Mammography CODE : XPMAMMO4



TRAINING CONTENT:

- Mammography Principle.
- Analog Mammography.
- Digital Mammography.
- Different Options.

K TARGET GROUP:

- X-Ray Technologist.
- Student in Medical Imaging.

Training Material :

Documents

PREREQUISITE:

General Knowledge in X-Ray.

DURATION : • 4 days (15:00-20:00): Virtual

Detailed Training Program

Day 1 : 15h00 - 20h00

* Mammography General:

- Breast Anatomy
- Mammographic Views
- Artifacts

i

- Image Quality Settings
- Pathologies
- Dose in mammography

Day 3 : 15h00 - 20h00

*Stereotactic Breast Biopsy :

- System overview
- Pre-procedure
- Biopsy workflow
- Procedure
- Post procedure
- Calibration of the biopsy unit

Day 2: 15h00 - 20h00

* Digital and Analog Mammography:

- Composition of the system
- Mammography examination
- Acquisition Parameters.
- Acquisition Modes.
- Quality Control and calibration in Mammography

MARS MEDIC

Day 4: 15h00 - 20h00

* Tomosynthesis

- Presentation of the Tomosynthesis system
- Tomosynthesis examination
- Tomosynthesis configuration
- Calibration in Tomosynthesis
- Contrast Medium

TRAINING FEES:

•300,00 USD for medical imaging students.•400,00 USD for technicians in Radiology.

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Application Training Catalogue C-Arm





In order to make the most of your medical imaging equipment, maintain a good academic level of your team and improve productivity while guaranteeing diagnostic image quality, adequate and effective training is essential.

Our training, provided by speakers with different and complementary profiles (Doctors in medical imaging, Biophysics and Radiophysics, Engineers and Health executives) aims to meet your needs on several aspects:

- The first part concerns the operating principle of the equipment.

- The second deals with the manipulation and optimization of acquisition protocols including image quality parameters.
- The third part concerns the mastery of post-processing software.

We support you with On-site or remotely trainings according to your needs.



C-Arm (2 days) CODE: XPCARM2



TRAINING CONTENT:

- Basic Principle of Radiology.
- Acquisition Parameters.
- Dose Reduction Techniques.
- Post Processing.
- Different options.

TARGET GROUP:

X-Ray Technologist.Student in Medical Imaging.

Training Material :

Documents

PREREQUISITE:

General Knowledge in X-Ray.

DURATION : • 2 days (15:00-20:00): Virtual

Detailed Training Program

Day 1: 15h00 - 20h00

- Basics of Radiology.
- System overview.
- Security measure.
- System disinfection.
- Dose.
- Dose Reduction options.
- Radiation protection.

Day 2: 15h00 - 20h00

- Image quality settings.
- the acquisition parameters.
- Post-processing tools.
- Subtracted digital angiography (SUB).
- 3D acquisition.
- Documentation.
- Data transfer/archiving.

TRAINING FEES: 150,00 USD for me

150,00 USD for medical imaging students.200,00 USD for technicians in Radiology.







Application Training Catalogue Angiography



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In order to make the most of your medical imaging equipment, maintain a good academic level of your team and improve productivity while guaranteeing diagnostic image quality, adequate and effective training is essential.

Our training, provided by speakers with different and complementary profiles (Doctors in medical imaging, Biophysics and Radiophysics, Engineers and Health executives) aims to meet your needs on several aspects:

- The first part concerns the operating principle of the equipment.

- The second deals with the manipulation and optimization of acquisition protocols including image quality parameters.

- The third part concerns the mastery of post-processing software.

We support you with On-site or remotely trainings according to your needs.



Angiography (5 days) Code : ANGIOBASE5

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TRAINING CONTENT:

- Angiography Principle
- Acquisition Protocols.
- Acquisition Modes.
- Tools : 'CARE' et 'CLEAR'.
- Different Options.

TARGET GROUP:

X-Ray Technologist.Student in Medical Imaging.

Training Material :

Documents

PREREQUISITE:General Knowledge in X-Ray.

DURATION : • 5 days (15:00-20:00): Virtual

Detailed Training Program

Day 1 : 15h00 - 20h00

- Basics of Angiography.
- System overview.
- Security measure.
- Dose in Angiography.
- Radiation protection.

Day 2 : 15h00 - 20h00

- CARE Functions.
- CLEAR Functions.
- The user interface.
- Acquisition parameters.
- DR/FL acquisition modes.
- The AEC acquisition technique.
- AirGap Technique

Day 3 : 15h00 - 20h00

- Image quality settings.
- 2D post-processing tools.
- Patient selector.
- Correct/ rearrange.
- Send/Retrieve.
- Archiving of patient data.

Day 4 : 15h00 - 20h00

- DSA/ROADMAP acquisition mode.
- Injection technique.
- DSA post-processing tools.
- Syngo iFlow.

Day 5 : 15h00 - 20h00

- Quantification.
- Calibration and measurement tools.
- Quantitative Vascular Analysis (QVA).
- Analysis of the Left Ventricle (LV).
- Quantitative Coronary Analysis (QCA).

MARS MEDIC

TRAINING FEES:

•300,00 USD for medical imaging students.•500,00 USD for residents and technicians in Radiology.





Application Training Catalogue Ultrasound





In order to make the most of your medical imaging equipment, maintain a good academic level of your team and improve productivity while guaranteeing diagnostic image quality, adequate and effective training is essential.

Our training, provided by speakers with different and complementary profiles (Doctors in medical imaging, Biophysics and Radiophysics, Engineers and Health executives) aims to meet your needs on several aspects:

- The first part concerns the operating principle of the Ultrasound equipment.

- The second deals with the manipulation and optimization of acquisition protocols including image quality parameters.

- The third part concerns the mastery of post-processing software.

We support you with On-site or remotely trainings according to your needs.



Ultrasound (3 days) CODE : USECHO3



TRAINING CONTENT:

- Ultrasound Principle.
- Parameters.
- Composition.
- Différente Options.

TARGET GROUP:

X-Ray Technologist.Student in Medical Imaging.

Training Material :

Documents

PREREQUISITE:

General Knowledge in X-Ray.

DURATION : • 3 days (15:00-20:00): Virtual

Detailed Training Program

Day 1 : 15h00 - 20h00

* Ultrasound:

- Basics of Ultrasound.
- The different modes of acquisition.
- The Doppler Mode.
- Composition.

Day 2: 15h00 - 20h00

* Ultrasound Options:

- Harmonic Imaging.
- Composite imagery.
- Panoramic imaging.
- Auto-TEQ technology.
- Automatic removal of artifacts.
- Flow dynamics.
- UltraArt UNIVERSAL image processing.
- Syngo VVI

Day 3 : 15h00 - 20h00

* Ultrasound Exam:

- Adjustment of exam parameters.
- Image quality settings.
- Artifacts.
- Standard Gynecology examination.
- 3D Gynecology examination.
- Cardiac examination.

TRAINING FEES:
 200,00 USD for medical imaging students.
 300,00 USD for technicians in Radiology.





Technical Training Catalogue MR





In order to make the most of your medical imaging equipment, maintain optimal quality within the specifications set by the manufacturer and improve productivity while guaranteeing diagnostic image quality, adequate and effective training is essential.

Our training, provided by speakers with different and complementary profiles (Doctors in medical imaging, Biophysics and Radiophysics, Engineers) aims to meet your needs in several aspects:

- The first aspect concerns the operating principle of the MRI Equipment.

- The second concerns the Functional Description of the equipment.
- The third aspect concerns preventive and corrective maintenance and quality control of equipment.

We support you with On-Site or remotely trainings according to your needs.



MR Technical Training (5 days) CODE: MRTECHNIQUE5

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TRAINING CONTENT:

- MRI Basics.
- Spin Echo Sequence.
- Image Quality Parameters.
- Artifacts
- MR System Components.
- MR Safety.
- MR System Functional Description.
- Pre-installation et installation.
- Power-on, shimming and calibration
- Maintenance.
- Quality Control.

Target Group:

- Biomedical Technologist.
- Biomedical Engineers.

Training Support :

Documents

PREREQUISITE:

General Knowledge in Electronics.

DURATION: • 5 days (15:00-20:00): Virtual

Detailed Training Program

Day 1: 15h00 - 20h00

- MRI Basics.
- Spin Echo Sequence.
- Spin Echo Sequence Weighting.
- K Space.
- fat Sat techniques.
- MR Safety.

Day 2: 15h00 - 20h00

- MR System Components.
- Magnet Functional Description.
- Gradient Functional Description.

Jour 3: 15h00 - 20h00

- Radio Frequency Functional Description
- Cooling System Functional Description.
- Patient table Functional Description.

Day 4: 15h00 - 20h00

- Pre-Installation and Installation Procedures.
- Pre-Installation.
- Test Equipment's.
- Electrical Box.
- Dicom.

Day 5: 15h00 - 20h00

- Printer Functional Description.
- Installation and start-up.
- Manufacture Quality Control.
- Preventive Maintenance.
- Service Maintenance.



TRAINING FEES:

- 400,00 USD for Biomedical Students.
- 600,00 USD for Engineers.



MRI Quality Assurance (3 days) CODE : MRQUALITE3



TRAINING CONTENT:

- MR Basics
- Spin Echo Sequence
- Image Quality Parameters
- Artifacts.
- MR System Components.
- MR Safety.
- Start-Up, shimming and calibration
- Quality Control.

Target Group:

- Biomedical Technologist.
- Biomedical Engineers.

Training Support :

Documents

PREREQUISITE:

General Knowledge in Electronics.

DURATION: • 3 days (15:00-20:00): Virtual

Detailed Training Program

Day 1: 15h00 - 20h00

- MR Basics.
- Spin Echo Sequence.
- Spin Echo Sequence Weighting.
- K space.
- Fat Sat Techniques.
- MR Safety.

Day 3: 15h00 - 20h00

- MR System Components.
- Shimming
- Calibration.
- Manufacture Quality Control.
- ACR Quality Control.

Day 2: 15h00 - 20h00

- Image Quality Criteria's.
- Contrast.
- Spatial Resolution.
- Acquisition Time.
- Signal to Noise Ratio.
- Metal Artifact.
- Aliasing Artifact.
- Movement Artifact.
- Chemical Shift Artifact.
- Truncation & Magnetic Susceptibility Artifact.

TRAINING FEES:

- 250,00 USD for Biomedical Students.
- 450,00 USD for Engineers.





Technical Training Catalogue CT





In order to make the most of your medical imaging equipment, maintain optimal quality within the specifications set by the manufacturer and improve productivity while guaranteeing diagnostic image quality, adequate and effective training is essential.

Our training, provided by speakers with different and complementary profiles (Doctors in medical imaging, Biophysics and Radiophysics, Engineers) aims to meet your needs in several aspects:

- The first aspect concerns the operating principle.
- The second concerns the technical study of the equipment.
- The third aspect concerns preventive and corrective maintenance and quality control of equipment.

We support you with On-Site or remotely trainings according to your needs.



CT Technical Training (5 days) CODE : CTTECHNIQUE5

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TRAINING CONTENT:

- Master the basic principles of CT.
- Know the different acquisition and reconstruction parameters.
- Know the acquisition modes.
- Know the operating principle of the different CT Scanner modules.
- Pre-installation and installation procedures.
- Pre-installation and Installation.
- Preventive and corrective maintenance.
- Quality Control

K Target Group:

- Biomedical Technologist.
- Biomedical Engineers.

Training Support :

Documents

PREREQUISITE:

General Knowledge in Electronics.

DURATION:

• 5 days (15:00-20:00) : Virtual



Detailed Training Program

Day 1: 15h00 - 20h00

- CT Basics.
- Acquisition Modes.
- Acquisition & Reconstruction Parameters.
- Image Quality Criteria's.
- CT Components.

Day 2: 15h00 - 20h00

- CT Dose.
- Dose Reduction Techniques.
- Iterative Reconstruction Methods.
- Pre-Installation Procedure.
- Installation Procedure.

Day 3: 15h00 - 20h00

- Power Switches.
- High Voltage Generation Principle.
- Acquisition Principle.
- Laser Printer Principle.

Day 4: 15h00 - 20h00

- Pre-Installation.
- Test Equipment's.
- Electrical Box.
- Installation.
- Tune-Up
- Dicom.

Day 5: 15h00 - 20h00

- Manufacture Quality Control Procedure.
- Catphan Quality Control Procedure.
- Quality Control Procedure ACR.
- Preventive Maintenance.
- Service Maintenance.

• 400,00 USD for Biomedical Students.

• 600,00 USD for

Engineers.

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