

Preventive Maintenance Training

Biomedical engineers

siemens-healthineers.com



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Dr. Janina Beilner

Siemens Healthineers Customer Services Global Head of Education



Dear Valued Customer,

Today continuous education is more important than ever. It allows organizations to keep pace with increasingly complex regulatory frameworks and adhere to safety and quality standards.

That's why our maintenance training for biomedical engineers focuses on what really matters:

Technical Product Information and Preventive Maintenance.

Our objective is to enable you to take care of first-level service.

Our maintenance courses cover a specific range of modalities and take place at the Siemens Healthineers Training Center in Erlangen (Germany), Cary (USA) or Shanghai (China): https://training.healthcare.siemens.com.

Our training courses will enable you to perform certain service tasks by yourself without the need for third party-vendors.

We are looking forward welcoming you at Siemens Healthineers!







The sharper your skills, the better your performance.

We help you to further improve your operational excellence – with our maintenance trainings for your biomedical engineers you can choose between two options:

Onsite training:

• Technical Product Information Classes

Classroom training:

• Preventive Maintenance Classes

Siemens Healthineers **Technical Product Information** is designed for clinical engineers who operate and maintain Siemens systems in hospitals. Courses are provided on-site and last between one and five days depending on your requirements or preferences.

Our **Preventive Maintenance Courses** cover a specified range of topics and take place at the Siemens Healthineers Training Center in Erlangen or Eschborn (Germany), Cary (USA) or Shanghai (China). Target group for these classes are clinical engineers who want to provide first-level maintenance or basic operating services. The courses are available for different products.

Please keep in mind that we require six months advance notice to plan and conduct a training session. To learn about the conditions that apply, please refer to the last page of this document.

Technical Product Information – Onsite Training for Customers

Location:

at your site, on your system or Siemens Healthineers Training Center

Dates:

On request

Language:

English

Target group:

Clinical engineers

Course size:

Up to 8 participants

Contact:

EMEA (In-Vivo) trainingcenter-erlangen. team@siemenshealthineers.com

EMEA (In-Vitro) trainingscenter-eschborn. team@siemenshealthineers.com

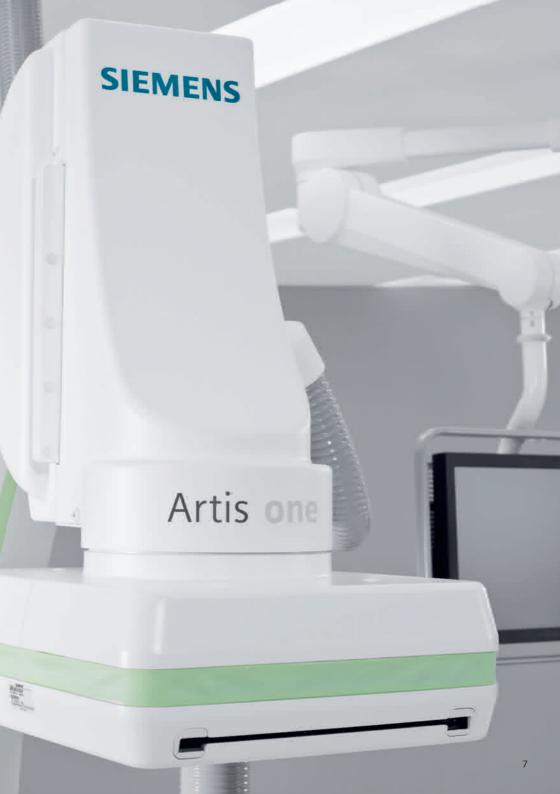
USA/Latin Americas trainingcenter-cary.team@ siemens-healthineers.com

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Angiography

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ARTIS pheno

Preventive Maintenance



This three-day course is suitable for participants who wish to maintain ARTIS pheno systems according to manufacturer's guidelines. This course covers both theoretical and practical aspects of ARTIS pheno maintenance

Target group:

 Clinical engineers who work with ARTIS pheno systems

Course content:

- Maintenance procedures for ARTIS Pheno systems
- Using various tools to maintain Pheno systems
- Safety issues for AT systems
- Conducting a quality check
- Final check

Dates and language:

On request, English

Organizer:

SHS EDU, Training Center Erlangen

Course size:

Up to 8 participants

Duration:

3 days

Course ID:

AX8PMPHENO

Contact:



Artis one

Preventive Maintenance



This two-day course is suitable for participants who wish to maintain Artis one systems according to manufacturer's guidelines. This course covers theoretical and practical aspects of maintaining Artis one systems.

Target group:

• Clinical engineers who work with Artis one systems

Course content:

- Overview of system functions
- Keeping the Artis one in good working order by performing periodic maintenance as required
- Using various tools to maintain Artis systems
- Safety issues for X-ray systems
- Performing an image quality diagnostic test
- Final check

Dates and language:

On request, English

Organizer:

SHS EDU, Training Center Erlangen

Course size:

Up to 8 participants

Duration:

2 days

Course ID:

AX8PMARTON

Contact:



Artis zee, Artis Q

Preventive Maintenance



This three-day course is suitable for participants who wish to maintain Artis zee and Artis Q systems according to manufacturer's guidelines. This course covers both theoretical and practical aspects of maintaining Artis zee and Artis Q systems. Please note: This training does not cover the multi-axis stand (this is part of the Artis zeego class).

Target group:

• Clinical engineers who work with Artis zee and /or Artis Q systems

Course content:

- Overview of system functions
- Keeping the Artis one in good working order by performing periodic maintenance as required
- Using various tools to maintain Artis systems
- Safety issues for X-ray systems
- Performing an image quality diagnostic test
- Final check

Dates and language:

On request, English

Organizer:

SHS EDU, Training Center Erlangen

Course size:

Up to 8 participants

Duration:

3 days

Course ID:

AX8PMARTZO

Contact:

Computed Tomography

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SOMATOM Definition

Preventive Maintenance



This two-day course is suitable for participants who wish to maintain SOMATOM Definition systems according to manufacturer's guidelines. This course covers both theoretical and practical aspects of SOMATOM Definition maintenance.

Target group:

 Clinical engineers who work with SOMATOM Definition systems

Course content:

- Maintenance procedures for SOMATOM Definition systems
- Using various tools to maintain SOMATOM Definition systems
- Safety issues for CT systems
- Conducting a quality check
- Final check

Dates and language:

On request, English

Organizer:

SHS EDU, Training Center Erlangen

Course size:

Up to 8 participants

Duration:

2 davs

Course ID:

CT8PMDEF

Contact:



SOMATOM Perspective

Preventive Maintenance



This three-day course is suitable for participants who wish to maintain SOMATOM Perspective systems according to manufacturer's guidelines. This course covers both theoretical and practical aspects of SOMATOM Perspective maintenance.

Target group:

 Clinical engineers who work with SOMATOM Perspective systems

Course content:

- Maintenance procedures for SOMATOM Perspective systems
- Using various tools to maintain SOMATOM Perspective systems
- Safety issues for CT systems
- Conducting a quality check
- Final check

Dates and language:

On request, English

Organizer:

SHS EDU, Training Center Erlangen

Course size:

Up to 8 participants

Duration:

3 davs

Course ID:

CT8PMPERSP

Contact:

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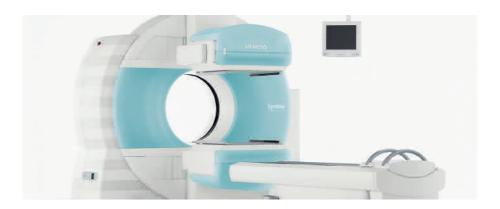






Symbia T

Preventive Maintenance



This two-day course is suitable for participants who wish to maintain Symbia T systems according to manufacturer's guidelines. This course covers both theoretical and practical aspects of Symbia T maintenance.

Target group:

 Clinical engineers who work with Symbia T systems

Course content:

- Maintenance procedures for Symbia T systems
- Using various tools to maintain Symbia T
- Safety issues for MI systems
- Conducting a quality check
- Final check

Dates and language:

On request, English

Organizer:

SHS EDU, Training Center Erlangen

Course size:

Up to 8 participants

Duration:

2 days

Course ID:

MI8PMSYM

Contact:



PET Biograph mCT

Preventive Maintenance



This two-day course is suitable for participants who wish to maintain PET Biograph mCT systems according to manufacturer's guidelines. This course covers both theoretical and practical aspects of PET Biograph mCT maintenance.

Target group:

 Clinical engineers who work with PET Biograph mCT systems

Course content:

- Maintenance procedures for PET Biograph mCT systems
- Using various tools to maintain PET Biograph mCT systems
- Safety issues for MI systems
- Conducting a quality check
- Final check

Dates and language:

On request, English

Organizer:

SHS EDU, Training Center Erlangen

Course size:

Up to 8 participants

Duration:

2 davs

Course ID:

MI8PMBIO

Contact:

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MAGNETOM Aera, Skyra

Preventive Maintenance



This two-day course is suitable for participants who wish to maintain MAGNETOM Aera, Skyra systems according to manufacturer's guidelines. This course covers both theoretical and practical aspects of MAGNETOM Aera, Skyra maintenance.

Target group:

 Clinical engineers who work with MAGNETOM Aera, Skyra systems

Course content:

- Maintenance procedures for MAGNETOM Aera, Skyra systems
- Using various tools to maintain MAGNETOM Aera, Skyra systems
- Safety issues for MR systems
- Conducting a quality check
- Final check

Dates and language:

On request, English

Organizer:

SHS EDU, Training Center Erlangen

Course size:

Up to 8 participants

Duration:

2 days

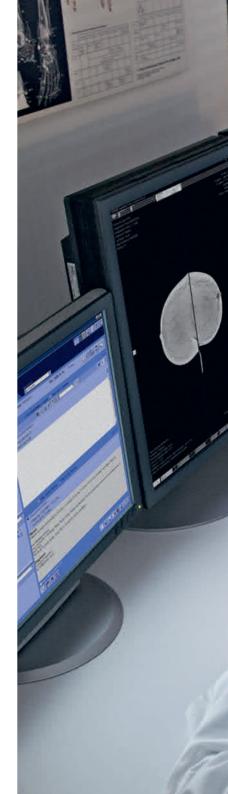
Course ID:

MR8PMAERA

Contact:

IT Solutions

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syngo.plaza

Preventive Maintenance



This four-day course is suitable for participants who wish to extend their basic knowledge of *syngo*.plaza servicing.

Target group:

 Service engineers who work with syngo.plaza

Course content:

- Backup & recovery
- Archiving, ATNA
- TLS for secure communication
- New licenses
- Progressive download
- User management
- HW/SW topics (product deployments, OS support, virtualization)
- Options (MWL scheduler, ResolutionMD, syngo.plaza 3D+, syngo.share, DICOM VNA)

Dates and language:

On request, English

Organizer:

SHS EDU, Training Center Erlangen

Course size:

Up to 8 participants

Duration:

4 days

Course ID:

SY8PMPLAZA

Contact:

Ultrasound

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ACUSON S1000

Preventive Maintenance



This two-day course is suitable for participants who wish to maintain ACUSON S1000 systems according to manufacturer's guidelines. It covers both theoretical and practical aspects of maintaining ACUSON S1000 systems.

Target group:

 Clinical engineers who work with ACUSON S1000 systems

Course content:

- Basic user interface skills
- Introduction to using the service software
- Keeping the ACUSON S1000 in good working order by performing periodic maintenance as required
- Using various tools to maintain ACUSON S1000 systems
- Safety issues for US systems
- Conducting a quality check
- Final check

Dates and language:

On request, English

Organizer:

SHS EDU, Training Center Erlangen

Course size:

Up to 8 participants

Duration:

2 days

Course ID:

US8PMS1000

Contact:



ACUSON NX2/NX3

Preventive Maintenance



This one-day course is suitable for participants who wish to maintain ACUSON NX2/NX3 systems according to manufacturer guidelines.

Target group:

 Clinical engineers who work with ACUSON NX2/NX3 systems

Course content:

- Basic user interface skills
- Introduction to using the service software
- Keeping the ACUSON NX2/NX3 in good working order by performing periodic maintenance as required
- Using various tools to maintain ACUSON NX2/NX3 systems
- Safety issues for US systems
- Perform a quality check
- Final check

Dates and language:

On request, English

Organizer:

SHS EDU, Training Center Erlangen

Course size:

Up to 8 participants

Duration:

1 day

Course ID:

US8PMNX2/3

Contact:



ACUSON S2000/S3000

Preventive Maintenance



This one-day course is suitable for participants who wish to maintain ACUSON S2000/S3000 systems according to manufacturer guidelines.

Target group:

 Clinical engineers who work with ACUSON S2000/S3000 systems

Course content:

- Basic user interface skills
- Introduction to using the service software
- Keeping the ACUSON S2000 S3000 in good working order by performing periodic maintenance as required
- Using various tools to maintain ACUSON S2000 S3000 systems
- Safety issues for US systems
- Perform a quality check
- Final check

Dates and language:

On request, English

Organizer:

SHS EDU, Training Center Erlangen

Course size:

Up to 8 participants

Duration:

1 day

Course ID:

US8PMS23

Contact:



ACUSON X Series

Preventive Maintenance



This one-day course is suitable for participants who wish to maintain ACUSON X Series systems according to manufacturer guidelines.

Target group:

 Clinical engineers who work with ACUSON X Series systems

Course content:

- Basic user interface skills
- Introduction to using the service software
- Keeping the ACUSON X Series in good working order by performing periodic maintenance as required
- Using various tools to maintain ACUSON X Series systems
- Safety issues for US systems
- Perform a quality check
- Final check

Dates and language:

On request, English

Organizer:

SHS EDU, Training Center Erlangen

Course size:

Up to 8 participants

Duration:

1 day

Course ID:

US8PMXSERI

Contact:

X-ray products

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Arcadis Varic/Avantic/Orbic

Preventive Maintenance



This two-day course is suitable for participants who wish to maintain Arcadis systems according to manufacturer's guidelines. It covers both theoretical and practical aspects of maintaining Arcadis systems.

Target group:

• Clinical engineers who work with Arcadis systems

Course content:

- Keeping the Arcadis System in good working order by performing periodic maintenance as required
- Using various tools to maintain Arcadis systems
- Safety issues for X-ray systems
- Conducting a quality check
- Final check

Dates and language:

On request, English

Organizer:

SHS EDU, Training Center Erlangen

Course size:

Up to 8 participants

Duration:

2 days

Course ID:

XP8PMARCAD

Contact:



Cios Family

Preventive Maintenance



This two-day course is suitable for participants who wish to maintain Cios Family systems according to manufacturer's guidelines. This course covers theoretical and practical aspects of maintaining Cios systems.

Target group:

• Clinical engineers who work with Cios systems

Course content:

- Keeping the Cios system in good working order by performing periodic maintenance as required
- Using various tools to maintain Cios systems
- Safety issues for X-ray systems
- Conducting a quality check
- Final check

Dates and language:

On request, English

Organizer:

SHS EDU, Training Center Erlangen

Course size:

Up to 8 participants

Duration:

2 days

Course ID:

XP8PMCIOS

Contact:



Mobilett Mira

Preventive Maintenance



This two-day course is suitable for participants who wish to maintain Mobilett Mira systems according to manufacturer's guidelines. This course covers both theoretical and practical aspects of maintaining Mobilett Mira systems.

Target group:

 Clinical engineers who work with Mobilett systems

Course content:

- Basic user interface skills
- Introduction to using the service software
- Keeping the Mobilett Mira in good working order by performing periodic maintenance as required
- Using various tools to maintain Mobilett Mira systems
- Safety issues for X-ray systems
- Conducting a quality check
- Final check

Dates and language:

On request, English

Organizer:

SHS EDU, Training Center Erlangen

Course size:

Up to 8 participants

Duration:

2 davs

Course ID:

XP8PMMIRA

Contact:



Luminos dRF Max

Preventive Maintenance



This three-day course is suitable for participants who wish to maintain Luminos dRF systems according to manufacturer's guidelines. This course covers both theoretical and practical aspects of maintaining Luminos dRF systems.

Target group:

 Clinical engineers who work with Luminos dRF systems

Course content:

- Keeping the Luminos dRF in good working order by performing periodic maintenance as required
- Using various tools to maintain Luminos dRF systems
- Safety issues for X-ray systems
- Conducting a quality check
- Final check

Dates and language:

On request, English

Organizer:

SHS EDU, Training Center Erlangen

Course size:

Up to 8 participants

Duration:

3 days

Course ID:

XP8DMDRF

Contact:



Mammomat Fusion

Preventive Maintenance



This two-day course is suitable for participants who wish to maintain the Mammomat Fusion systems according to manufacturer's guidelines. This course covers both theoretical and practical aspects of maintaining Mammomat Fusion systems.

Target group:

 Clinical engineers who work with Mammomat Fusion systems

Course content:

- Keeping the Mammomat Fusion system in good working order by performing periodic maintenance as required
- Using various tools to maintain Mammomat Fusion systems
- Safety issues for XP systems
- Conducting a quality check
- Final check

Dates and language:

On request, English

Organizer: SHS EDU.

Training Center Erlangen Course size:

Up to 8 participants

Duration: 2 days

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Course ID: XP8PMMAFUS

Contact:



Multitom Rax

Preventive Maintenance



This two-day course is suitable for participants who wish to maintain the Multitom Rax systems according to manufacturer's guidelines. This course covers both theoretical and practical aspects of maintaining Multitom Rax systems.

Target group:

• Clinical engineers who work with Multitom Rax systems

Course content:

- Keeping the Multitom Rax in good working order by performing periodic maintenance as required
- Using various tools to maintain Multitom Rax systems
- Safety issues for X-ray systems
- Conducting a quality check
- Final check

Dates and language:

On request, English

Organizer:

SHS EDU, Training Center Erlangen

Course size:

Up to 8 participants

Duration:

2 davs

Course ID:

XP8PMMTR

Contact:



Multix Fusion/Fusion Max

Preventive Maintenance



This two-day course is suitable for participants who wish to maintain Multix Fusion/Fusion Max systems according to manufacturer's guideline. This course covers both theoretical and practical aspects of maintaining Multix Fusion systems.

Target group:

• Clinical engineers who work with Multix Fusion/Fusion Max system

Course content:

- Keeping the Multix Fusion/Fusion
 Max system in good working order by
 performing periodic maintenance as
 required
- Using various tools to maintain Multix Fusion/Multix Fusion Max systems
- Safety issues for X-ray systems
- Conducting a quality check
- Final check

Dates and language:

On request, English

Organizer:

SHS EDU, Training Center Erlangen

Course size:

Up to 8 participants

Duration:

2 davs

Course ID:

XP8PMMTXFU

Contact:



Ysio Max

Preventive Maintenance



This two-day course is suitable for participants who wish to maintain Ysio systems according to manufacturer's guidelines. It covers both the theoretical and practical aspects of maintaining Ysio systems.

Target group:

• Clinical engineers who work with Ysio systems

Course content:

- Keeping the Ysio in good working order by performing periodic maintenance as required
- Using various tools to maintain Ysio systems
- Safety issues for X-ray systems
- Conducting a quality check
- Final check

Dates and language:

On request, English

Organizer:

SHS EDU, Training Center Erlangen

Course size:

Up to 8 participants

Duration:

2 days

Course ID:

XP8PMYSIO

Contact:

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SYSMEX CS-5100

Preventive Maintenance



This three-day course is suitable for participants who wish to maintain Sysmex CS-5100 systems according to manufacturer's guidelines. This course covers both theoretical and practical aspects of Sysmex CS-5100 maintenance.

Target group:

 Clinical engineers who work with Sysmex CS-5100 systems

Course content:

- Maintenance procedures for Sysmex CS-5100 systems
- Using various tools to maintain Sysmex CS-5100 systems
- Safety issues for hemostasis systems
- Conducting a quality check
- Final check

Dates and language:

On request, English

Organizer:

SHS EDU, Training Center Eschborn

Course size:

Up to 6 participants

Duration:

3 days

Course ID:

HH8PMCS51

Contact:



SYSMEX CS-2x00 Series

Preventive Maintenance



This three-day course is suitable for participants who wish to maintain Sysmex CS-2100i and CS-2500 systems according to manufacturer's guidelines. This course covers both theoretical and practical aspects of Sysmex CS-2100i and CS-2500 maintenance.

Target group:

 Clinical engineers who work with Sysmex CS-2100i and CS-2500 systems

Course content:

- Maintenance procedures for Sysmex CS-2100i and CS-2500 systems
- Using various tools to maintain Sysmex CS-2100i and CS-2500 systems
- Safety issues for hemostasis systems
- Conducting a quality check
- Final check

Dates and language:

On request, English

Organizer:

SHS EDU, Training Center Eschborn

Course size:

Up to 6 participants

Duration:

3 days

Course ID:

HH8PMCS21

Contact:



SYSMEX CA-500/600 Series

Preventive Maintenance



This two-day course is suitable for participants who wish to maintain Sysmex CA-500/600 series systems according to manufacturer's guidelines. This course covers both theoretical and practical aspects of Sysmex CA-500/600 series maintenance.

Target group:

 Clinical engineers who work with Sysmex CA-500/600 series systems

Course content:

- Maintenance procedures for Sysmex CA-500/600 series systems
- Using various tools to maintain
 Sysmex CA-500/600 series systems
- Safety issues for hemostasis systems
- Conducting a quality check
- Final check

Dates and language:

On request, English

Organizer:

SHS EDU, Training Center Eschborn

Course size:

Up to 6 participants

Duration:

2 davs

Course ID:

HH8PMCA56

Contact:



BCS XP

Preventive Maintenance



This 4.5 hour virtual classroom course is suitable for participants who wish to maintain BCS XP systems according to manufacturer's guidelines. This course covers both theoretical and practical aspects of BCS XP maintenance.

Target group:

• Clinical engineers who work with BCS XP systems

Course content:

- Maintenance procedures for BCS XP systems
- Using various tools to maintain BCS XP systems
- Safety issues for hemostasis systems
- Conducting a quality check
- Final check

Dates and language:

On request, English

Organizer:

SHS EDU, Training Center Eschborn

Course size:

Up to 8 participants

Duration:

4.5 hours (virtual classroom)

Course ID:

HH8BCSXPPM

Contact:

Hematology

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ADVIA 120/2120/2120i/Autoslide

Preventive Maintenance



This three-day course is suitable for participants who wish to maintain ADVIA 120/2120/2120i and ADVIA Autoslide systems according to manufacturer's guidelines. This course covers both theoretical and practical aspects of ADVIA 120/2120/2120i/Autoslide maintenance.

Target group:

 Clinical engineers who work with ADVIA 120/2120/2120i/Autoslide systems

Course content:

- Maintenance procedures for ADVIA 2120 & ADVIA Autoslide systems
- Using various tools to maintain ADVIA 120/2120/2120i and ADVIA Autoslide systems
- Safety issues for hematology systems
- Conducting a quality check
- Final check

Dates and language:

On request, English

Organizer:

SHS EDU, Training Center Eschborn

Course size:

Up to 6 participants

Duration:

3 days

Course ID:

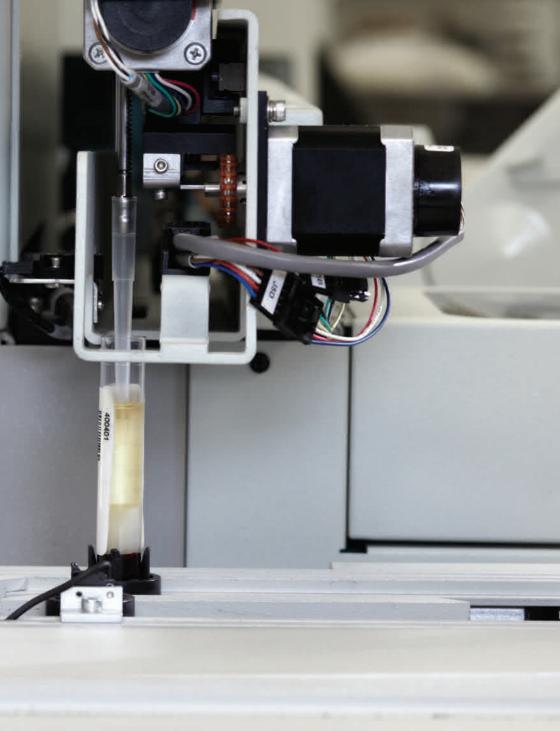
HH8PMA2120

Contact:

Integrated Chemistry

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Dimension Series System

Preventive Maintenance



This three-day course is suitable for participants who wish to maintain Dimension EXL, RxL, Xpand systems according to manufacturer's guidelines. This course covers both theoretical and practical aspects of Dimension EXL, RxL, Xpand maintenance.

Target group:

 Clinical engineers who work with Dimension EXL, RxL, Xpand systems

Course content:

- Maintenance procedures for Dimension EXL, RxL, Xpand systems
- Using various tools to maintain
 Dimension EXL, RxL, Xpand systems
- Safety issues for integrated chemistry systems
- Conducting a quality check
- Final check

Dates and language:

On request, English

Organizer:

SHS EDU, Training Center Eschborn

Course size:

Up to 6 participants

Duration:

3 days

Course ID:

CA8PMDIMA

Contact:

Clinical Chemistry

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ADVIA Chemistry

Preventive Maintenance



This three-day course is suitable for participants who wish to maintain ADVIA 1800, 2400, and XPT systems according to manufacturer's guidelines. This course covers both theoretical and practical aspects of ADVIA 1800, 2400, and XPT maintenance.

Target group:

• Clinical engineers who work with ADVIA 1800, 2400, XPT systems

Course content:

- Maintenance procedures for ADVIA 1800, 2400, XPT systems
- Using various tools to maintain ADVIA 1800, 2400, XPT systems
- Safety issues for clinical chemistry systems
- Conducting a quality check
- Final check

Dates and language:

On request, English

Organizer:

SHS EDU, Training Center Eschborn

Course size:

Up to 6 participants

Duration:

3 days

Course ID:

CA8PMACHEM

Contact:

Immunoassay

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ADVIA Centaur XP/XPT

Preventive Maintenance



This two-day course is suitable for participants who wish to maintain ADVIA Centaur XP/XPT systems according to manufacturer's guidelines. This course covers both theoretical and practical aspects of ADVIA Centaur XP/XPT maintenance.

Target group:

 Clinical engineers who work with ADVIA Centaur XP/XPT systems

Course content:

- Maintenance procedures for ADVIA Centaur XP/XPT systems
- Using various tools to maintain ADVIA Centaur XP/XPT systems
- Safety issues for clinical chemistry systems
- Conducting a quality check
- Final check

Dates and language:

On request, English

Organizer:

SHS EDU, Training Center Eschborn

Course size:

Up to 6 participants

Duration:

2 davs

Course ID:

CA8PMCCXP

Contact:



General terms & conditions (extract)

If you are interested in one of our offerings, please contact one of our local Siemens Healthineers course administration offices listed below. The team will refer you to a specialist who will discuss all details with you. Please keep in mind that the courses described here must be booked in advance. We require approximately six months' notice from booking to course delivery.

high the cancellation fee should be, the date of receipt of the cancellation is relevant, not the date the cancellation was sent.

Course fees:

The administration office will give you a precise view of the costs incurred. Course fees for Classroom Training held at the SIEMENS Healthineers Global Training Center in Erlangen include all refreshments, catering and training materials.

All Classroom Training courses held at the Training Center in Erlangen begin at 8.30 am the first day.

Please check your registration confirmation or training materials for further information about courses held at other locations.

Course registration is complete once availability has been verified. A reservation confirmation and further course information will be sent by e-mail well ahead of the course date. You will receive an invoice one to two weeks before the course takes place.

Cancellation:

There is no charge for cancellations received no later than 15 days prior to the start of the training. In the event of a cancellation received between the 13th day and the 7th day prior to the start of the training, a cancellation fee of 50% of the attendance fees is payable by the client. For a cancellation received between the 6th and the 3rd day before training begins, a cancellation fee of 75% is payable, or 100% if the cancellation is received less than 3 days before the start of the training. Decisive is receipt of the cancellation by Training Center. In deciding whether a cancellation fee is due, and how

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