EDUCATION & TRAINING

Educational Programs 2011/12

ELEKTA

Extensive course offering

Elekta offers comprehensive education and training based on a blended learning concept enabling beginners and seasoned specialists to enhance their skills.

This catalogue presents the educational programs 2011/12 .

In addition a number of local courses are provided, in their respective languages.

We hope you find courses that meet your training needs and look forward to meeting you.

Course information

The courses are continuously updated and subject to change without notice.

Please contact us via email info.education@elekta.com or visit our web sites for the latest program offerings, course availability and registration.

- www.elekta.com/training

Liability

Elekta collaborates with experts and leading hospitals worldwide to provide education and training.

Elekta is not held responsible for any clinical advice given during these training sessions.

Content

Neuroscience

Oncology

Introductory Programs **Start-up Programs**

Software

info.education@elekta.com
www.elekta.com/training

Leksell Gamma Knife® Perfexion™ – Clinical Introductory Program

CLINICAL

Objective

To introduce clinicians to Gamma Knife® surgery with Leksell Gamma Knife Perfexion and Extend™ System. The course focuses on clinical information, combined with hands-on sessions using Leksell GammaPlan®.

Experts with years of experience from Gamma Knife surgery are selected to lecture on this course.

Content

- The principles and practice of stereotaxy and radiosurgery
- Principles of frame application
- Patient selection and teaching cases
- Clinical program with lectures covering established indications for Gamma Knife surgery
- Observation of patient treatment
- Introduction to and hands-on sessions on Leksell GammaPlan
- Introduction to and hands-on sessions on Extend System
- Quality Assurance

Training center and duration

4-day course at University Hospital La Timone Gamma Knife Center, Marseille, France.

Target group

- Neurosurgeons
- Radiation Oncologists
- Neurologists
- Neuroradiologists
- Medical Physicists

Further information

info.education@elekta.com

Leksell Gamma Knife® Perfexion™ – Applications Introductory Program

APPLICATIONS

Objective

To make users confident in the operation, care and maintenance of Leksell Gamma Knife Perfexion.

The course will focus on radiation physics, dosimetry, stereotaxy for Gamma Knife surgery, quality assurance (QA), technical information and treatment planning using Leksell GammaPlan®.

Content

- Principles of stereotaxy and radiosurgery
- Principles of radiation physics, basic radiobilogy and radiation safety
- Introduction to and hands-on sessions on Leksell GammaPlan
- Introduction to and hands-on sessions on Leksell Gamma Knife Perfexion
- Introduction to and hands-on sessions on Extend System
- Clearance and Emergency procedures
- Quality Assurance

Training center and duration

4-day course at Elekta, Stockholm, Sweden.

Target group

- Medical Physicists
- Radiation Therapists/ Radiographers
- Neurosurgeons
- Radiation Oncologists

Further information

info.education@elekta.com

Leksell Gamma Knife® Perfexion™ – Introductory Program

CLINICAL

Objective

To identify the basic principles and biophysics of Gamma Knife surgery and how they apply to day-to-day patient treatment.

Review the clinical indications, parameters of treatment and outcomes of Gamma Knife surgery. Recognize radiation safety issues and principles, as well as become familiar with emergency procedures that pertain to Leksell Gamma Knife Perfexion.

Content

- Principles and practice of stereotaxy and radiosurgery
- Principles of frame application
- Patient selection and teaching cases
- Clinical program with lectures covering established indications for Gamma Knife surgery
- Observation of patient treatments
- Hands-on sessions with Leksell GammaPlan®
- Hands-on sessions with Leksell Gamma Knife Perfexion

Training center and duration

5-day course at Cleveland Clinic Gamma Knife Center, Cleveland, OH, USA (CME accredited).

Target group

- Neurosurgeons
- Radiation Oncologists
- Neuro-Otolaryngolists
- Medical Physicists
- Neuroradiologists

Further information

info.education@elekta.com

Leksell Gamma Knife® Perfexion™/ 4C – Introductory Program

CLINICAL

Objective

To obtain knowledge about the practical aspects of stereotactic radiosurgery using Leksell Gamma Knife. Principles of radiation physics and radiobiology, that apply to single-session, focused, small volume irradiation will be covered.

Registrants should be able to create radiosurgery dose plans for brain tumors, vascular malformations and trigeminal neuralgia.

Content

- Principles and practice of stereotaxy and radiosurgery
- Principles of frame application
- Patient selection and teaching cases
- Clinical program with lectures covering established indications for Gamma Knife surgery
- Observation of patient treatments
- Medical physics, basic radiobiology and radiation safety
- Hands-on sessions with relevant version of Leksell GammaPlan®
- Hands-on sessions with relevant Leksell Gamma Knife model

Training center and duration

5-day course at University of Pittsburgh, Center for Image-Guided Neurosurgery, PA, USA (CME accredited).

Target group

- Neurosurgeons
- Radiation Oncologists
- Medical Physicists
- Otologists
- Other clinical neuroscience providers

Further information

info.education@elekta.com

Leksell Gamma Knife® Perfexion™ – Upgrade Program

CLINICAL

Objective

To receive aspects of clinical and technical training for handling new features of Leksell Gamma Knife Perfexion, when upgrading from previous models.

The training includes the use of dynamic workflow included in Leksell GammaPlan, composite shots and dynamic shaping.

Content

- System and workflow overview
- New approaches to treatment plans
- New features in Leksell GammaPlan
- Treatment using Leksell Gamma Knife Perfexion
- QA procedures

Training centers and duration

3-day course at:

- Cleveland Clinic Gamma Knife Center, Cleveland, OH, USA
- Washington Hospital Healthcare System, CA, USA
- University of Pittsburgh, Center for Image-Guided Neurosurgery, PA, USA

All courses are CME accredited.

Target group

- Medical Physicists
- Neurosurgeons
- Radiation Oncologists
- Others responsible for the operation of Leksell Gamma Knife

Further information

info.education@elekta.com

Leksell Gamma Knife® Perfexion™/Leksell GammaPlan® – Physics Introductory Program

APPLICATIONS

Objective

To provide Medical Physicists with a technical and clinical overview of what this method of treatment entails. The course will focus on radiation physics, dosimetry,stereotactic imaging, qualityassurance (QA), technical information and treatment planning with Leksell GammaPlan. The emphasis will be on Leksell Gamma Knife Perfexion.

Treatment planning for Leksell Gamma Knife C can also be covered if required. The content will be adjusted to the experience level of the attendees.

Content

- Principles and practice of stereotaxy and radiosurgery
- Observation of patient treatments
- Radiation physics and radiation safety
- Hands-on sessions with relevant version of Leksell GammaPlan
- Hands-on sessions with relevant Leksell Gamma Knife model
- QA and emergency procedures in accordance with NRC requirements

Training center and duration

3-day course at Washington Hospital Healthcare System, Fremont, CA, USA (CME accredited).

Target group

- Medical Physicists

Further information

info.education@elekta.com

Leksell Gamma Knife® – Comprehensive and Practical Medical Physics

APPLICATIONS

Objective

Through attendance at this program, registrants should obtain knowledge about the practical aspects of stereotactic radiosurgery using the Leksell Gamma Knife® with emphasis on medical physics aspects. This course provides training related to the Leksell Gamma Knife® 4C and Perfexion. However, the course is also appropriate for users of B and C units. At the end of the program attendees should be able to perform acceptance, commissioning and regular quality assurance of the Leksell Gamma Knife® unit. Further, participants should be able to create radiosurgery treatment plans and address all aspects related to the treatment planning, configuration and administration.

Content

- Introduction and Basic Leksell Gamma Knife® Hardware, Software and Dosimetry
- Case Observation
- Installation, Acceptance, Commissioning and Quality Assurance of Leksell Gamma Knife®
- Treatment Planning, Treatment Procedure
- Radiobiology of Leksell Gamma Knife® Radiosurgery

Training center and duration

3-day course at University of Pittsburgh, Center for Image-Guided Neurosurgery, PA, USA (CAMPEP for 24.1 credits).

Target group

- Medical Physicists

Further information

info.education@elekta.com

Leksell Gamma Knife® Perfexion™ / 4C – Nurse Course

APPLICATIONS

Objective

To provide radiosurgery nurses with principles of device management, patient preparation, patient education, neuroimaging, and post-radiosurgery care, as they apply to single-session, focused, small volume irradiation will be covered in depth. At the close of the program, participants should be able to discuss those issues relevant to patient preparation and care during radiosurgery.

Content

- Overview of Gamma Knife radiosurgery
- Hands-on stereotactic frame, fiducials, coils, angiograms care and set-up
- Neuroimaging issues
- Dose planning introduction
- Informed consent
- Patient preparation, hands-on cases, 4C and Perfexion unit
- Patient care experience: hands-on
- Patient preparation, instruction care
- Patient care experience
- Observation of the radiosurgery team as they perform

Training center and duration

3-day course at University of Pittsburgh, Center for Image-Guided Neurosurgery, PA, USA

Target group

- Nurses

Further information

info.education@elekta.com

Leksell Gamma Knife® – System Start

APPLICATIONS

Objective

The System Start is the second phase of the training for new installations and upgrades of Leksell Gamma Knife. On-site clinical and technical application support is provided to users after installation and takes place the first week of patient treatments. The objective is to give users the opportunity to be proficient and to enhance their competence in the use of Leksell Gamma Knife.

Content

- Patient selection and treatments
- Treatment planning
- Treatment
- QA procedures
- Emergency procedures
- Clinical lectures (optional)

Training centers and duration

5-day course at customer site.

Target group

- Neurosurgeons
- Medical Physicists
- Radiation Oncologists
- Others responsible for the operation of Leksell Gamma Knife

Further information

info.education@elekta.com

Leksell Gamma Knife® Perfexion™ – Advanced Program for Stereotactic Radiosurgery

CLINICAL

Objective

To further enhance the participant's knowledge of Leksell Gamma Knife Perfexion and its advanced applications in the field of stereotactic radiosurgery.

Specific focus will be placed on Gamma Knife surgery for several different indications.

Patient selection, radiosurgical techniques, and complication avoidance as well as management will be highlighted. In addition, the course will cover aspects of operation, safety, indications, and outcomes for Perfexion based radiosurgery.

Content

This course emphasizes the operation, indications, and outcomes of Gamma Knife surgery

- Frame placement
- Neuro-imaging
- Changes between Leksell Gamma Knife Perfexion and previous models
  - Pertinent NRC Regulations
  - Patient Positioning system
  - Control System
  - Physician Workflow
- Radiation safety
- Practical hands-on with Leksell GammaPlan
- Indications for Gamma Knife surgery
- Outcomes for Gamma Knife surgery
- Avoidance and Management of Gamma Knife surgery complications

Training centers and duration

3-day course at University of Virginia, Charlottesville, Virginia, USA (CME accredited).

Target group

- Neurosurgeons
- Radiation Oncologists
- Medical Physicists
- Otolaryngologists
- Neuro-Oncologists
- Medical Oncologists

Pre-requisite

6 months experience in stereotactic radiosurgery.

Further information

info.education@elekta.com

Leksell GammaPlan® – Advanced Program

APPLICATIONS

Objective

To enhance the knowledge of users in 3D volumetric dose planning, by providing comprehensive didactic and supervised practical training. This is achieved by covering various planning evaluation techniques applicable to all versions of Leksell GammaPlan®.

Content

Interactive lectures and hands-on sessions covering:

- Imaging & QA
- Dose planning strategies with new features
- Workflow strategies and planning evaluations

Training centers and duration

3-day course at:

- Elekta, USA
- Elekta, Stockholm, Sweden.

Target group

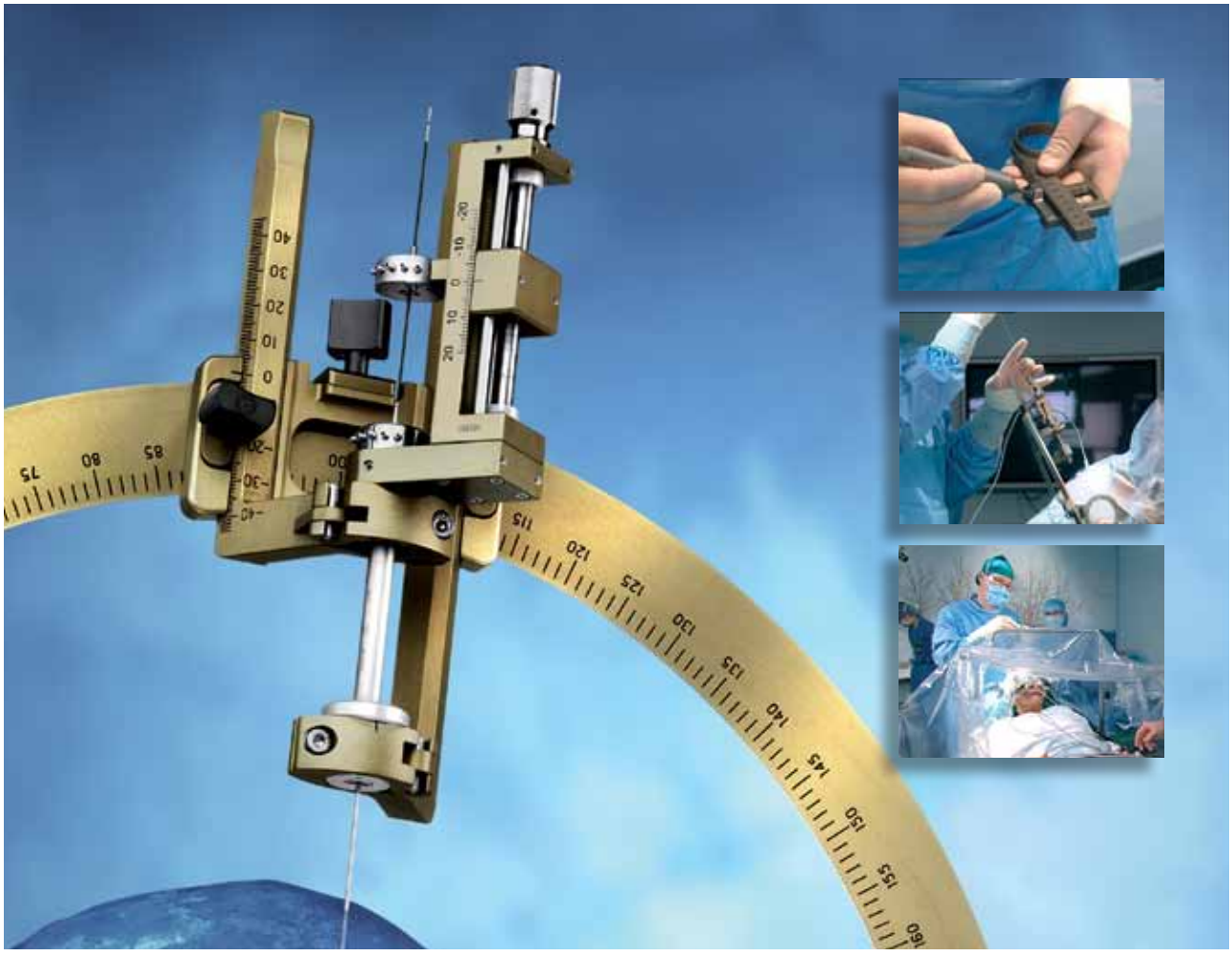
- Medical Physicists
- Dosimetrists
- Radiation Oncologists
- Neurosurgeons

Pre-requisite

6-12 months experience of Gamma Knife surgery.

Further information

info.education@elekta.com



Leksell® Stereotactic Neurosurgery Program

CLINICAL

Objective

To make neurosurgeons proficient in the use of Leksell Stereotactic System and to further develop their skills in the use of the system. The clinical part of the training focuses on functional disorders.

Content

- General principles of stereotaxy, visualization and localization
- Information and demonstration of Leksell Stereotactic System
- Scientific lectures that focus on basic stereotactic techniques for different indications
- Methods for target localization
- Stimulation, DBS implantation and lesioning techniques
- Interactive scientific lectures and observations of clinical procedures
- Discussions on cases from the participants
- Workshop sessions with
  - Leksell Stereotactic System®
  - Leksell SurgiPlan®
  - Leksell® Neuro Generator
  - Elekta MicroDrive™

Training centers and duration

3-day course at: Academisch Medisch Centrum, Department of Neurosurgery, Amsterdam, The Netherlands.

Target group

- Neurosurgeons
- Anyone interested in Leksell Stereotactic Neurosurgery

Further information

info.education@elekta.com

SonoWand Invite™ – Intra-operative Imaging Training Program

CLINICAL

Objective

To make neurosurgeons proficient in the use of the SonoWand system. To strengthen the neurosurgeon's confidence in 3D ultrasound navigation.

Content

- System overview
- Basic principles of 3D ultrasound
- Read and understand ultrasound images in relation to brain anatomy and MRI
- Clinical lectures by experienced users
  - procedures/workflow
  - clinical cases
- Workshop/discussions

Training centers and duration

2.5-day course at an Elekta office.

Target group

- Neurosurgeons

Further information

info.education@elekta.com

Elekta Neuromag® – Introductory Program

APPLICATIONS

Objective

To introduce users to Elekta Neuromag magnetoencephalography (MEG) for clinical and/or research purposes. This includes lectures from leading experts, workflow observation and hands-on sessions for spontaneous and various evoked responses. The program is tailored to match the interests of the attendees based on the specialty of their MEG center.

Content

- Principles of MEG
- Physics related to MEG
- Overview of software and hard-ware components of the system
- Observation of MEG measurements
- Data acquisition
- Data analysis
- Lectures applicable to specialties of attendees

Training centers and duration

5-day course held at several training sites around the world.

Target group

- Neurologists
- Neurosurgeons
- Epileptologists
- Neurophysiologists
- Neuropsychologists
- Neuropsychiatrists
- Neuroscientists
- Biomedical Physicists
- Biomedical Engineers
- EEG/MRI Technologists

Further information

info.education@elekta.com

Elekta Neuromag® – System Start

APPLICATIONS

Objective

This training is conducted on-site at new installations and upgrades of Elekta Neuromag magnetoencephalography (MEG) devices. After installation and system integration, a tailored program is followed by users which is delivered by assigned MEG experts to provide on-site application support. This occurs during the first 2 weeks of patient and/or subject measurements. The objective is to give core users the opportunity to be proficient and to enhance their competence in the use of Elekta Neuromag MEG.

Content

- Principles of MEG
- Overview of software and hardware components of the system
- Lecture applicable to site specialty (optional)
- Numerous supervised practical sessions on workflow for spontaneous and evoked responses:
  - Patient/subject preparation
  - Stimulator paradigms and set-ups
  - Data acquisition
  - Data analysis and set-ups
- QA procedures

Training center and duration

10-day course at customer site.

Target group

- Neurologists
- Neurosurgeons
- Epileptologists
- Neurophysiologists
- Neuropsychologists
- Neuropsychiatrists
- Neuroscientists
- Biomedical Physicists
- Biomedical Engineers
- EEG/MRI Technologists

Further information

info.education@elekta.com

Elekta Neuromag® – Advanced Program

APPLICATIONS

Objective

To provide existing users guidance to further enhance their knowledge on MEG usage and applications. This is a tailored course with lectures and supervised hands-on sessions with experts, to match the interests of the varying specialties of attendees.

This includes optimization of applied data-sets and paradigms, physics and mathematical models as well as advanced methods for data analysis for clinical and/or research purposes. Attendees are encouraged to provide their own paradigms and data sets in advance for the hands-on sessions.

Content

- Lectures and hands-on sessions
  - Advanced data acquisition
  - Advanced data analysis
- Lectures on mathematical and scientific methods behind MEG
- Interference suppression methods
- Lectures applicable to specialties of attendees

Training centers and duration

3-day course held at several training sites around the world.

Pre-requisite

Elekta Neuromag Introductory training course and six months usage of Elekta Neuromag is recommended.

Target group

- Neurologists
- Neurosurgeons
- Epileptologists
- Neurophysiologists
- Neuropsychologists
- Neuropsychiatrists
- Neuroscientists
- Biomedical Physicists
- Biomedical Engineers
- EEG/MRI Technologists

Further information

info.education@elekta.com

SRT Clinical Training

CLINICAL

Objective

This advanced clinical training program is designed to present the steps required to implement SRT for routine treatment on Elekta Axesse™ and other Elekta linear accelerators with Stereotactic capabilities.

The delegate will, on completion:

- Recognize indications for and outcomes of SRT/Radiosurgery
- Understand dose selection, fractionation and planning techniques
- Become familiar with Imaging requirements (pre/post treatment)
- Practice set up and verification
- Observe and discuss delivery of SRT/Radiosurgery
- Discover the tools and choosing the right approach
- Increase confidence to implement SRS/SRT into routine clinical practice

Content

- Providing the theoretical background to stereotaxy and dose escalation/hypofractionation
- Demonstrate the use of a range of Elekta SRT systems functionality for target localization
- Hands-on patient immobilization and positioning
- Principles and functions of Stereotaxy using Elekta SRT systems
- Dose escalation and hypofractionation techniques
- Tumor types considered suitable for treatment
- Practical hands-on sessions
- Patient set-up
- Optimal dose plans for different lesions
- Discussions on target planning and dose planning

Training center and duration

2-day course at:

- Wake Forest University Baptist Medical Center, NC, USA
- Würzburg University Hospital, Gemany

Target group

- Radiation Oncologists
- Physicists
- Radiation Therapists/ Radiographers
- Dosimetrists
- Anyone interested in SRT

Pre-requisites

A solid understanding of oncology and extensive experience of delivering image-guided RT.

Further information

info.education@elekta.com

IGRT Clinical Training

CLINICAL

Objective

To provide clinical understanding of the use of 4D image guided radiation therapy and give practical guidelines in the use of Elekta Synergy®.

Content

- Introduction to IGRT – clinical experience and benefits
- General clinical workflows
- Image acquisition – calibration and basic QA
- Data communications (TP-XVI)
- Image registration
- Set-up deviation handling – decision rule – table correction
- Protocol – correction of error
- Practical workflows (on/off-line)
- Lectures on different clinical indications (pelvis, lung, head & neck and breast)
- Practical hands-on
  - QA sessions and treatment

Training centers and duration

2-day course at an experienced IGRT site:

- European hospital in collaboration with Elekta
- North American hospital in collaboration with Elekta

For latest details on location and dates, please visit www.elekta.com/education

Target group

- Radiation Oncologists
- Physicists
- Radiation Therapists/ Radiographers

Further information

info.education@elekta.com

VMAT Clinical Training

CLINICAL

Objective

The objective of this clinical program is to present the steps required to implement VMAT for routine treatment on Elekta's linear accelerators.

Content

- Commissioning the linear accelerator and treatment planning system for IMRT/VMAT
- Acquisition of beam data
- Dosimetry and stability of beam segments of small MU and dimensions
- Methods to establish the appropriate margins for IMRT/VMAT
- Inverse planning methods for prostate, breast and head and neck IMRT/VMAT
- QA tools for IMRT/VMAT delivery
- Demonstrations performed on Elekta linear accelerators

Training centers and duration

2-day course at an experienced VMAT site:

- European hospital in collaboration with Elekta

For latest details on location and dates, please visit www.elekta.com/education

Target group

- Physicists
- Dosimetrists
- Radiation Oncologists
- Radiation Therapists/ Radiographers

Further information

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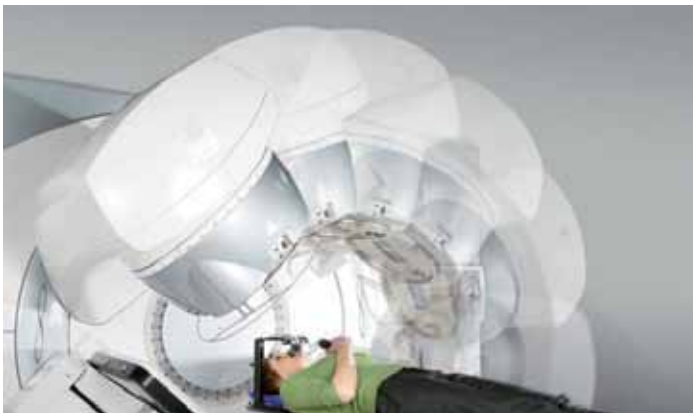


Elekta Synergy® XVI

APPLICATIONS

Objective

To provide applications training on the X-ray volume imaging (XVI) functionality and it's use in the patient's course of treatment.

Content

- XVI hardware overview
- Software structure overview
- Preparation of 2D and 3D reference data
- Three modes of acquiring images: PlanarView™, MotionView™ and VolumeView™
- Image registration
- Image approval
- System administration

Training center and duration

3.5-day course at the customer site (ASRT accredited).

Target group

- Radiation Therapists/ Radiographers
- Medical Physicists
- Radiation Oncologists

Pre-requisite

The attendees must have a working knowledge of Precise Treatment System™ and iViewGT™. Prior to training the customer has to scan and plan a phantom, to use during training.

Further information

info.education@elekta.com

iViewGT™

APPLICATIONS

Objective

To provide applications training in the use of iViewGT imaging system, using the amorphous silicon panel. The course enables operators to acquire patient images before and during patient treatment.

Content

- Introduction to iViewGT hardware and software
- The preparation of patient details and reference data for image acquisition
- Image acquisition for both simple and IMRT beams*
- How to view and manipulate images
- Template matching*
- Automatic image acquisition with iComVx
- System calibration
- Database management

** optional*

Training center and duration

2.5-day course at the customer site (ASRT accredited).

Target group

- Radiation Therapists/ Radiographers

Further information

info.education@elekta.com

Active Breathing Coordinator™

APPLICATIONS

Objective

To provide applications training in the clinical use of Active Breathing Coordinator together with a basic understanding of the hardware and software.

Content

- Introduction to Active Breathing Coordinator hardware and software
- Patient education
- Entering treatment parameters
- Treatment simulation and delivery

Training center and duration

1-day course at the customer site (ASRT accredited).

Target group

- Radiation Therapists/ Radiographers

Further information

info.education@elekta.com

HeadFIX®

APPLICATIONS

Objective

To provide applications training in the clinical use of HeadFIX based on the following guidelines:

- Provide a basic understanding of the hardware components of HeadFIX
- Enable accurate patient positioning
- Facilitate competent usage of HeadFIX, in conjunction with the linear accelerator for clinical purposes

Content

- Introduction to HeadFIX and components
- Equipment setup:
  - Mouthpiece/nosepiece
  - Baseplate and post
- Initial positioning and immobilization of the patient
- Daily patient repositioning
- Storage of patient specific components
- Setup on CT and planning

Training center and duration

1-day course at the customer site.

Target group

- Radiation Therapists/ Radiographers
- Physicists
- Radiation Oncologists

Further information

info.education@elekta.com

HexaPOD™ and iGuide RT System

APPLICATIONS

Objective

To provide applications training in the clinical use of the HexaPOD and iGuide RT System based on the following guidelines:

- Provide a basic understanding of the hardware and software components of the HexaPOD RT System (iGUIDE® and HexaPOD RT CouchTop)
- Enable accurate patientinformation entry
- Facilitate competent usage of HexaPOD RT System, in conjunction with the linear accelerator for clinical purposes

Content

- Hardware Components
  - Introduction to the Control and treatment area computers
  - Introduction to HexaPOD RT CouchTop and iGUIDE System (including iBEAM® CouchTop)
  - Host table function
  - Camera hardware
  - Reference frame
- Software Components
  - Introduction to HexaPOD RT CouchTop and iGUIDE control software
  - Review of the screen layout and menu structure
  - Accurate entry of patient data
  - Review of the basic operating routines
  - Review of user documentation and safety chapter
  - Assessment and training checklist

Training center and duration

2-day course at the customer site.

Target group

- Radiation Therapists/ Radiographers
- Physicists
- Radiation Oncologists

Further information

info.education@elekta.com

BodyFIX®

APPLICATIONS

Objective

To provide applications training in the clinical use of BodyFIX based on the following guidelines:

- Provide a basic understanding of the hardware components of BodyFIX
- Enable accurate patient positioning for extra-cranial conformal and stereotactic radiotherapy treatments
- Facilitate competent usage of BodyFIX, in conjunction with the linear accelerator for clinical purposes.

Content

- Introduction to BodyFIX and components
- Initial positioning and immobilization of the patient
- Vacuum cushion preparation
- Daily patient repositioning
- Storage of patient specific components
- Setup on CT/MRI and planning

Training center and duration

1-day course at the customer site.

Target group

- Radiation Therapists/ Radiographers
- Physicists
- Radiation Oncologists

Further information

info.education@elekta.com

Elekta Compact™ Introductory

APPLICATIONS

Objective

To provide applications training in the use of Elekta Compact for Clinical purposes.

Content

- Introduction to the Elekta Compact
- System hardware overview
- Treatment Delivery
- Understanding the System Administration

Training Center and duration

1.5 day course at the customer site.

Target group

Radiation Therapists/Radiographers

Further information

info.education@elekta.com

Elekta Compact™ with MLCi2

APPLICATIONS

Objective

To provide applications training in the use of Elekta Compact™ with MLCi2 for Clinical purposes

Content

- Introduction to the Elekta Compact with MLCi2
- System hardware overview
- How to enter treatment parameters in Deliver Standard Therapy
- Treatment Delivery
- Understanding the System Administration
- Use of Elekta Compact with MLCi2 in Receive External Prescription

Training center and duration

1.5 day course at the customer site.

Target group

- Radiation therapists / Radiographers
- Physicists
- Radiation Oncologists

Further information

Contact the local Elekta business unit or representative

Precise Treatment System™ – Desktop Pro™

APPLICATIONS

Objective

To provide applications training in the use of Precise Treatment System. The course enables operators to use Precise Treatment System Standard Therapy and Receive External Prescription Mode for clinical purposes.

Content

- Introduction to Precise Treatment System
- How to enter treatment parameters
- Treatment delivery with standard therapy, including X-ray electron and HDRE fields
- Understanding system administration
- The use of Precise Treatment System with third-party record and verify systems

Training center and duration

1.5-day course at the customer site (ASRT accredited).

Target group

- Radiation Therapists/ Radiographers

Further information

info.education@elekta.com

1st Line Training

TECHNICAL

Objective

A competent student will be able to:

- Describe the basic operation of the linear accelerator
- Identify all major assemblies, components, areas and hazards on the machine
- Interrogate the software for simple diagnostic information
- Fault find and repair the low level interlock systems
- Check and set the machine optical systems and services

Content

- Course introduction
- Safe working practices
- Machine geography
- Control systems
- Interlocks & supplies
- Principles of operation
- Isocenter checking
- Services

Assessment

Five theory assessments and practical assignments.

Training centers and duration

5-day course at:

- Elekta, Crawley, UK
- Elekta, Atlanta, GA, USA.

Target group

- Hospital Physicists
- Hospital Engineers

Further information

Contact the local Elekta business unit or representative.

Elekta Oncology Engineer – part 1 (EOE1)

TECHNICAL

Objective

A competent student will be able to:

- Describe the basic operation of the treatment system
- Identify all major assemblies, components, areas and hazards on the machine
- Interrogate the software for simple diagnostic information
- Fault find and repair the low level interlock systems, mechanics, Beam Limiting Devices and control systems
- Calibration of movements.
- Check and set the machine optical systems and services
- Use image software based calibration tools for Beam Limiting Devices
- Operate MV and kV imaging systems

Content

- Patient Flow & Clinical Operation
- Principles of operation all products
- Machine geography
- Control systems
- Interlocks & supplies
- Services & Isocenter
- Back up – Restore
- iView GT – mechanics, calibration
- Precise Table
- MLCi/ Beam Modulator, Corrective Maintenance, Calibration
- MLCi, Calibration, ACAL
- iView GT/ XVI, operation
- LCS, XVI & iView GT computers
- Computer cabinet fault finding

Assessment

Three theory assessments and practical assessments.

Training centers and duration

15-day course at:

- Elekta, Crawley, UK
- Elekta, Atlanta, GA, USA.

Target group

- Hospital engineers (self maintainers)
- Elekta field service engineers
- Distributor field service engineers

Further information

Contact the local Elekta business unit or representative.

Elekta Oncology Engineer – part 2 (EOE2)

TECHNICAL

Objective

A competent student will be able to:

- Check the operation of the HT and RF system
- Adjust the X-ray beam energy and uniformity
- Adjust the electron beam energy and uniformity
- Setup and calibrate the MV and kV imaging systems
- Update MV and kV bad pixel maps
- Perform image registration of XVI (X-ray volume imaging)
- Operate kV generator in service mode

Content

- High Tension and RF
- Beam Energy
- Beam Transport
- Electrons
- VMAT
- iViewGT and XVI imaging system calibration
- HIS / XIS software
- Initial Set Up / Bad Pixel Map kV and MV
- XVI Flexmap creation
- Customer Acceptance Tests kV
- XVI image Registration
- Image artefacts
- Generator operation service mode

Assessment

Two theory assessments and two practical assignments.

Training centers and duration

13-day course at:

- Elekta, Crawley, UK
- Elekta, Atlanta, GA, USA.

Target group

- Hospital engineers (self maintainers)
- Elekta field service engineers
- Distributor field service engineers

Pre-requisites

Elekta Oncology Engineer - part 1 (EOE1) or equivalent

Further information

Contact the local Elekta business unit or representative.

Pre-study Elekta Compact™ Training Course

TECHNICAL

Objective

To provide underpinning knowledge and practical experience for those engineers who are not very experienced in the industry.

Content

- Introduction to Radiotherapy
- Treatment machine technology
- The Treatment process and control
- Introduction to the Elekta Compact

Assessment

One theory assessment.

Training center and duration

5-day course at Elekta BMEI Beijing, China.

Target group

- Elekta engineers
- Distributor engineers
- Hospital engineers

Further information

Contact the local Elekta business unit or representative.

Elekta Compact™ Engineer

TECHNICAL

Objective

A competent student will be able to:

- Conduct machine calibration procedures
- Check the operation of the RF System
- Measure and optimize the X-ray beam
- Check the operation and connectivity to an external system
- Conduct logical fault finding methodology

Content

- Course introduction
- Control systems
- System overview
- Machine calibration
- Measurement techniques
- High tension and RF
- Beam energy
- Beam transport
- Fault finding

Assessment

Two theory assessments and two individual practical assessments.

Training center and duration

15-day course at Elekta BMEI, Beijing, China.

Target group

- Hospital Engineers
- Elekta and distributors

Further information

Contact the local Elekta business unit or representative.

Elekta Compact™ with MLCi2 Service Engineers

TECHNICAL

Objective

A competent student will be able to:

- Understand the treatment control system
- Understand the MLC hardware
- Operate the machine in service mode
- Conduct calibration procedures for the linac and MLC
- Conduct the planned maintenance tasks

Content

Course introduction

- MLC hardware and control system
- Integrity control system
- Linac geometric parameters calibration process
- MLC calibration process

Assessment

One theory assessment.

Training center and duration

5-day course at Elekta BMEI Beijing, China.

Target group

- Elekta engineers
- Distributor engineers
- Hospital engineers

Pre-requisites

Elekta Compact Engineer.

Further information

Please contact the local Elekta business unit or representative.

Elekta Compact™ with IviewC™ Service Engineers

TECHNICAL

Objective

A competent student will be able to:

- Understand the IViewC control system
- Understand the IviewC hardware
- Conduct calibration procedures
- Conduct the planned maintenance tasks

Content

Course introduction

- IviewC hardware and software systems
- Image quality
- Image system calibration process

Assessment

One theory assessment.

Training center and duration

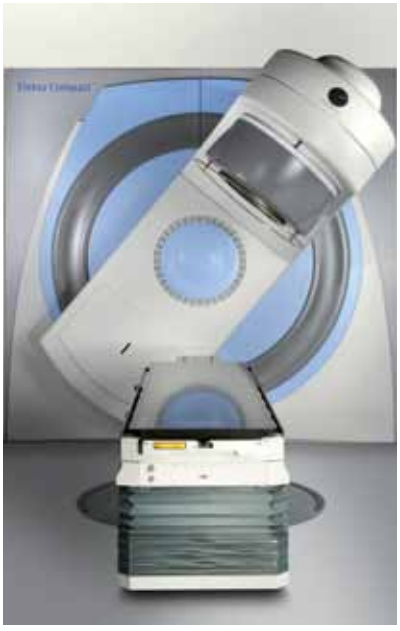
5-day course at Elekta BMEI Beijing, China.

Target group

- Elekta engineers
- Distributor engineers
- Hospital engineers

Further information

Please contact the local Elekta business unit or representative.



2nd Line Physics and MLC

TECHNICAL

Objective

A competent student will be able to:

- Operate the machine in service mode
- Conduct calibration procedures and QA for the linac and MLC
- Check the operation of the RF system
- Measure and adjust the X-ray and electron beam energy
- Measure and adjust the X-ray and electron field uniformity
- Devise and implement a quality assurance routine

Content

- Course introduction
- Quality assurance
- Calibration
- Multileaf collimator (MLC) System
- High tension (HT) and radio frequency (RF)
- Beam energy and transport
- Electrons
- Dosimetry
- External system
- System operation

Assessment

Two theory assessments and practical assignments.

Training center and duration

10-day course at Elekta, Crawley, UK.

Target group

- Hospital Physicists
- Elekta and distributors' physics staff

Pre-requisites

Completed the 1st Line training course or gained a 1st Line Exemption Test pass.

Further information

Contact the local Elekta business unit or representative.

Beam Measurement

TECHNICAL

Objective

A competent student will be able to:

- Describe the features of the beam from the patient's perspective
- Competently measure and assess electron and photon beams
- Competently measure absolute dose
- Produce % depth dose and isodose curves for the digital accelerator using Excel
- Evaluate a digital accelerator for clinical use
- Discuss beam characteristics with physics colleagues

Content

- Course introduction
- Clinical beam requirements
- Beam parameters photons and electrons
- Measurement techniques
- Beam modifiers and build up
- Absolute dose measurement

Assessment

Continual assessment during the course. Successful completion of eight tasks.

Training center and duration

3-day course at Elekta, Crawley, UK.

Target group

- Hospital Engineers
- Elekta and distributors

Pre-requisite

2nd Line Engineers Course, or Elekta Oncology Engineer - part 2 (EOE2). It is recommended to take this course with Beam Adjustment.

Further information

Contact the local Elekta business unit or representative.

Beam Adjustment Advanced

TECHNICAL

Objective

A competent student will be able to:

- Set up and check minimum leakage/maximum output
- Set up and check field symmetry and flatness
- Set up and check lookup tables
- Identify causes of symmetry errors

Content

- Minimum leakage/Maximum output
- AB & GT setup
- Field symmetry and flatness
- Lookup tables
- Fault causes, effects and repair

Assessment

Completion of the practical tasks and produce documented evidence.

Training center and duration

2-day course at Elekta, Crawley, UK.

Target group

- Hospital Engineers
- Elekta and distributors

Pre-requisite

2nd Line Engineers Course, or Elekta Oncology Engineer - part 2 (EOE2). It is recommended to take this course with the Beam Measurement Course.

Further information

Contact the local Elekta business unit or representative.

HT & RF

TECHNICAL

Objective

A competent student will be able to:

- Describe the theory of operation of the RF and HT system of the linac
- Diagnose faults and repair

Content

- HT: HTPSU, Modulator, Fault diagnosis
- RF: Magnetron standard and FTM, Thyratron, RF system, AFC system
- Fault diagnosis
- Acceleration: Input mode and output mode transformers, buncher section, energy

Assessment

Two theory assessments.

Training center and duration

3-day course at Elekta, Crawley, UK.

Target group

- Hospital Engineers
- Elekta and distributors

Pre-requisite

Completion of 1st Line Training and 2nd Line Engineers Course or Elekta Oncology Engineer - part 2 (EOE2).

Further information

Contact the local Elekta business unit or representative.

Precise Table

TECHNICAL

Objective

A competent student will be able to:

- Identify all major assemblies, components areas and hazards on Precise Table
- Interrogate the system for simple diagnostic information
- Locate all supplies and interlock components
- Describe the installation process
- Perform the corrective and planned maintenance procedures

Content

- Safety
- Geography
- Calibration and ASU setup
- Principles of operation
- Corrective maintenance
- Installation
- Planned maintenance
- Acceptance tests
- Trouble shooting

Assessment

Assessment of competency during the course and one final test.

Training center and duration

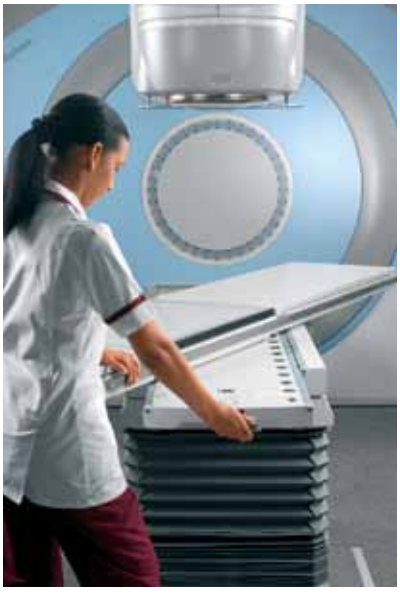
5-day course at Elekta, Crawley, UK.

Target group

- Hospital Engineers
- Elekta and distributors

Further information

Contact the local Elekta business unit or representative.



Elekta Synergy® IGRT QA Historic

TECHNICAL

Objective

A competent student will be able to:

- Describe the operation and relevant parts of the XVI system
- Confirm the alignment of the imaging system
- Gain correct the system
- Acquire images in Planar-, Motion- and VolumeView
- Acquire and analyse 2D images using Perkin Elmer tools
- Reconstruct 3D volumetric views
- Generate and apply flexmaps
- Conduct a set of tests with appropriate phantoms to QA the 2D and 3D image quality
- Conduct a set of tests with an appropriate phantom to QA the image registration process

Content

- Overview of hardware and software within the XVI system including the safety interlocks
- Image pipeline and acquisition of Planar-, Motion- and VolumeView images
- Use of the large, medium and small fields of view
- Handling of images including file locations and backups
- Generation and use of flexmaps
- Creation and maintenance of the presets used in the imaging process
- Alignment and checking of the kV imaging panel and of the kV source position
- Overview of the kV generator control and its interface including service mode
- Calibrating the kV imaging panel gains, offsets and bad pixel maps
- Analysing the system log files
- Using DICOM to import files
- Configuring and administrating the system
- Confirming the alignment between mV and kV image registration
- Capability and limitations of the volumetric reconstruction algorithm and of the image registration algorithms
- Troubleshooting the system including workstation selection in the generator
- Short theory sessions followed by practical sessions on a gantry based XVI system with relevant phantoms

Assessment for physicists

A number of tasks to help gain experience and develop skill will be set. A student pass depends on material generated, including analysis of a 2D torr phantom and a series of 3D volumetric images.

Assessment for engineers

There will be a number of short multiple choice review assessments to determine the students underpinning knowledge and evidence of registered images to demonstrate competence.

A student pass depends on material generated including a successfully registered 3D volumetric image.

Training center and duration

5-day course at Elekta, Crawley, UK.

Target group

- Hospital Physicists
- Hospital Engineers
- Elekta and distributors

Pre-requisite for physicists

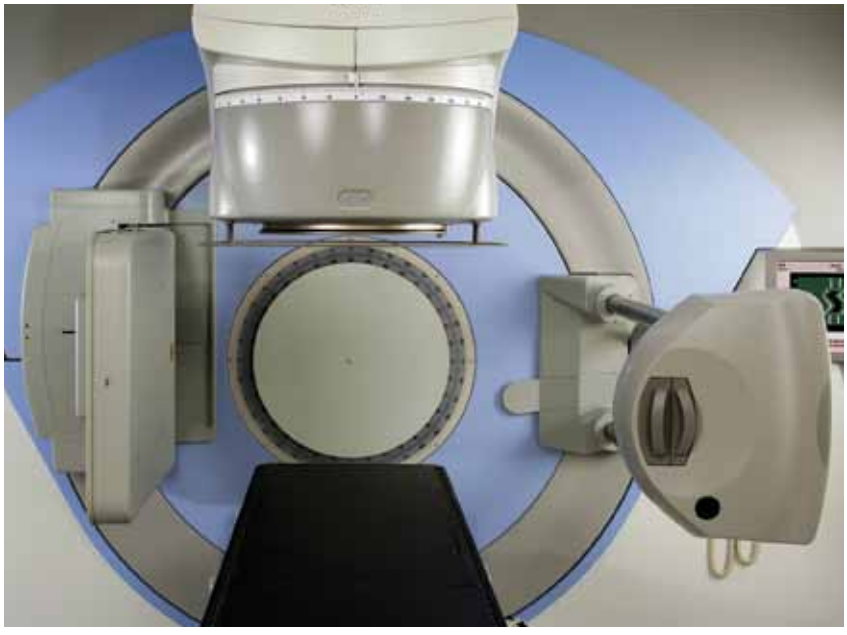
Completion of 1st Line Training or 1st Line Exemption Test. A good understanding of Excel is required.

Pre-requisite for engineers

Completion of 2nd Line Engineering, iViewGT Engineering and Synergy X-ray Production and Imaging Course. A good understanding of Excel is required.

Further information

Contact the local Elekta business unit or representative.



Elekta Synergy® kV Generator Advanced

TECHNICAL

Objective

A competent student will be able to:

- Identify the main hazards present on the Sedecal generator
- Interrogate the system for simple diagnostic information
- Locate all supplies and printed circuit boards
- Describe the installation process
- Configure the hardware and software
- Perform the planned maintenance procedures

Content

- Safety
- Machine geography
- Principles of operation
- Configuration
- Installation
- Planned maintenance

Assessment

There will be a multiple choice assessment where the student must achieve a 75% pass rate.

Training center and duration

3-day course at Elekta, Crawley, UK.

Target group

- Hospital Engineers
- Elekta and distributors

Pre-requisite

Completion of a 2nd Line Engineers or 2nd Line Physics & MLC Course or Elekta Oncology Engineer - part 2 (EOE2).

Further information

Contact the local Elekta business unit or representative.

MV and kV Imaging Engineer Advanced

TECHNICAL

Objective

A competent student will for MV and kV be able to:

- Troubleshoot artefacts
- Understand CT reconstruction parameters
- Calibrate the imaging chain
- Quality assure the complete system

Content

- CT reconstruction parameters
- Reconstruction algorithms
- Panel characteristics
- Artefact resolution
- MV & kV panel calibration
- Dose calibration
- Multi level gain
- Quality Assurance measurements
- Problem analysis

Assessment

Task based evidence portfolio.

Training center and duration

5-day course at:

- Elekta, Crawley, UK
- Elekta, Atlanta, GA, USA.

Target group

- Hospital Engineers
- Elekta and distributors

Pre-requisite

Completion of Elekta Oncology Engineer - part 2 (EOE2).

Further information

Contact the local Elekta business unit or representative.

iViewGT™ Portal Imaging System Historic

TECHNICAL

Objective

A competent student will be able to:

- Describe the components of an iViewGT system
- Operate the iViewGT system to create a new patient prescription and acquire images
- Install an iViewGT system
- Set up and calibrate an iViewGT system
- Perform database administration
- Use the HIS software to update or generate a bad pixel map
- Replace FRUs, including: detector panel, linear actuator, longitudinal motor, clutch, brake units and lateral motor unit
- Set up networked connections for an iViewGT system
- Configure DICOM

Content

- Service support and installation of iViewGT

Assessment

Assessment of practical competency during the course. Theoretical understanding at end of course.

Training center and duration

5-day course at Elekta, Crawley, UK.

Target group

- Hospital Engineers
- Elekta and distributors

Further information

Contact the local Elekta business unit or representative.

HexaPOD™ evo and iGuide

TECHNICAL

Objective

- To install a new Precise Table with HexaPOD or upgrade an existing table
- Set up and calibrate HexaPOD
- Set up the HexaPOD Reference Frame
- Perform Corrective Maintenance procedures
- Use software tools to perform diagnostic tests
- Perform the Customer Acceptance Tests
- Perform the iGuide Camera Accuracy Test

Content

Service support of HexaPOD and iGuide

Assessment

Assessment of practical competency during the course. Theoretical understanding at end of course.

Training center and duration

4-day course at Elekta, Crawley, UK.

Target group

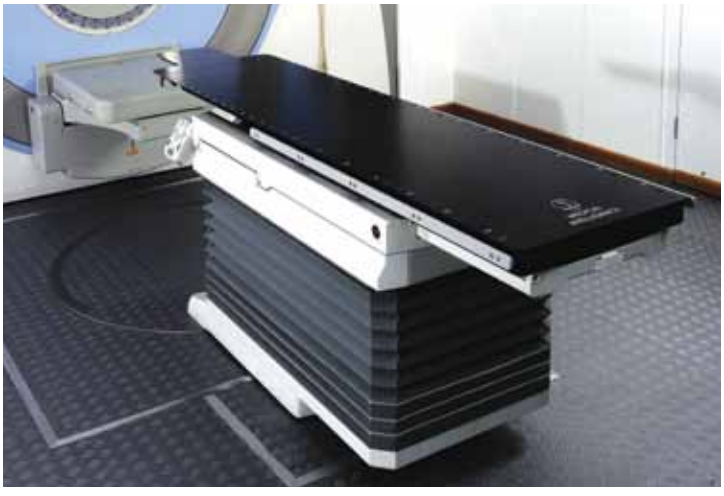
- Hospital Engineers
- Elekta and distributors

Pre-requisite

- Elekta Synergy IGRT QA Historic Course
- Precise Table Course
- Elekta Oncology Engineer - part 2 (EOE2).

Further information

Contact the local Elekta Business Unit or representative.



Mechanical Skills Advanced

TECHNICAL

Objective

A competent student will be able to:

- Diagnose faults, repair, service and maintain the mechanical systems of the linac

Content

- MLC: Leafbank removal, Back-up diaphragm, MLC maintenance
- Beam Modulator Calibration
- Collimator: Rotational bearings, collimator components
- Flight tube: Change (theory), drive system bellows
- Gantry: Gearbox and brake, jockey wheels, rims, gantry balance
- Vacuum investigation

Assessment

Theory assessment and evidence of tasks performed competently.

Training center and duration

5-day course at Elekta, Crawley, UK.

Target group

- Hospital Engineers
- Elekta and distributors

Pre-requisite

Completion of Elekta Oncology Engineer - part 1 (EOE1). Safety shoes required.

Further information

Contact the local Elekta business unit or representative.

MOSAIQ® Desktop Installation

TECHNICAL

Objective

A competent student will be able to:

- Operate and troubleshoot MOSAIQ Desktop application
- Install and troubleshoot
  - SQL Server
  - MOSAIQ Server
  - MOSAIQ Workstation
  - DICOM
  - NAMER
- Install and Sequencer for Elekta
- Complete and distribute post installation documentation
- Use Clientele

Content

- Clinical operation
- SQL Server installation
- MOSAIQ Server installation
- MOSAIQ Workstation installation
- Troubleshooting
- DICOM installation and troubleshooting
- NAMER installation and troubleshooting
- Sequencer for Elekta
- Post installation documentation
- Clientele

Assessment

One multiple-choice assessment on last day and one practical assessment, where the student must achieve an 80% pass in multiple choice assessment and 50% in the practical assessment. Only one retry per assessment will be allowed if student fails.

Training centers and duration

10-day course at Elekta, Crawley, UK.

Target group

- Elekta European Business Unit engineers
- 3rd party distributor engineers from AFLAME and Europe who will be installing MOSAIQ Desktop

Pre-requisite

Completion of the Computer and Networking Skills Exemption Test and Elekta Linac 1st Line Engineers Course.

Further information

Contact the local Elekta business unit or representative.

Elekta software products for Radiation Therapy Treatment Planning (RTP) and supporting software tools offer a number of training opportunities. Various training courses are available throughout the world. Customers who attend in-house training have access to their own workstation for lecture and hands-on learning.

Attendees will learn to use RTP products in real-life planning situations with clinical patient data and machine files to produce realistic patient treatment plans.

Further information

The current schedule for courses is listed on the website at www.elekta.com/training

Information requests should be addressed to: info.education@elekta.com

XiO® – Application

APPLICATIONS

Objective

To provide applications training in the use of XiO for treatment planning. The course provides an understanding of the software enabling the user to efficiently create effective treatment plans.

Course content

- Structure Contouring
- Digitized Contour-based Planning
- 2D Irregular Field Planning
- 3D External Beam Planning
- Brachytherapy (Prostate and GYN)
- Dose Volume Histogram tools
- IMRT Overview

Duration

5-day in-house training (accredited by ASRT and MDCB).

Target group

- Dosimetrists
- Physicists
- Treatment Planners

Pre-requisite

- XiO Treatment Planning system installed in your clinic
- 3D Treatment Planning Experience preferred

Further information

www.elekta.com/training

XiO® – Physics

APPLICATIONS

Objective

To provide training in beam modeling procedures and data acquisition requirements for the XiO Treatment Planning system. In addition, basic applications training in treatment planning (application) will be provided.

Course content

- Structure Contouring
- 3D External Beam Treatment Planning
- Data Acquisition Requirements
- Introduction to Dose Calculation Algorithms
- Introduction to Beam Modeling
- Wedge Modeling
- Monitor Unit calculations
- IMRT Overview/QA Tools

Duration

5-day in-house training.

Target group

- Physicists

Pre-requisite

- XiO Treatment Planning system installed in your clinic
- 3D Treatment Planning Experience
- Some beam data collection experience

Further information

www.elekta.com/training

XiO® IMRT – Application

APPLICATIONS

Objective

To provide applications training in IMRT treatment planning utilizing the XiO Treatment Planning System. The course provides an understanding of the IMRT software enabling the user to efficiently create effective IMRT treatment plans.

Course content

- Contouring for IMRT Planning
- Beam Placement
- The IMRT Prescription
- Optimization
- Segmentation/Compensation
- QA of IMRT Plans

Duration

3-day in-house training (accredited by ASRT and MDCB).

Target group

- Dosimetrists
- Physicists
- Treatment Planners

Pre-requisite

- XiO - Application Training Course or at least 3-6 months experience using XiO
- XiO Treatment Planning system installed in your clinic
- Understanding of IMRT treatment planning preferred

Further information

www.elekta.com/training

XiO® IMRT – Application and Physics

APPLICATIONS

Objective

To provide IMRT specific data collection requirements, beam modeling and applications training in IMRT treatment planning utilizing the XiO Treatment Planning System. The course provides an understanding of the IMRT software enabling the user to efficiently create effective IMRT treatment plans.

Course content

- Data Acquisition Requirements for IMRT Beam Modeling
- Contouring for IMRT Planning
- Beam Placement
- The IMRT Prescription
- Optimization
- Segmentation/Compensation
- QA of IMRT Plans

Duration

4-day in-house training (accredited by ASRT and MDCB).

Target group

- Physicists

Pre-requisite

- XiO-Application Training Course or at least 3-6 months experience using XiO
- XiO Treatment Planning system installed in your clinic
- Understanding of IMRT treatment planning preferred

Further information

www.elekta.com/training

Focal®

APPLICATIONS

Objective

To provide applications training on CT simulation, contouring and plan review software at the customer's site.

Course content

- DICOM Import
- Structure Contouring
- Beam and Port Placement
- CT Simulation Planning
- Image Fusion (optional)
- Plan Review and Comparison

Duration

On-site training - duration varies (contact your sales representative).

Target group

- Dosimetrists
- Physicists
- Treatment Planners

Further information

www.elekta.com/training

Focal 4D™

APPLICATIONS

Objective

To provide applications training using 4D contouring software at the customer's site.

Course content

- DICOM Import
- Structure Contouring and Manipulation Using 4D tools
- Creating Specialty Images- MIP/MinIP/Avg

Duration

3-day on-site training.

Target group

- Dosimetrists
- Physicists
- Treatment Planners
- Physicians

Further information

www.elekta.com/training

Monaco®

APPLICATIONS

Objective

To provide applications training in advanced radiobiology-based IMRT treatment planning. The course provides an understanding of the IMRT software enabling the user to efficiently create effective IMRT treatment plans.

Course content

- Contouring for IMRT Planning
- Beam Template Creation
- The IMRT Prescription
- IMRT Cost Functions
- Optimization
- Segmentation
- Plan Review
- QA of IMRT Plans

Duration

5-day in-house training (accredited by ASRT and MDCB).

Target group

- Dosimetrists
- Physicists
- Treatment Planners

Pre-requisite

- Experience utilizing the CMS Focal product or Self-training utilizing the training materials on Contouring Tools, Fusion and Plan Review
- Monaco Treatment Planning system installed in your clinic

Further information

www.elekta.com/training

Atlas-Based Auto Segmentation (ABAS)

APPLICATIONS

Objective

To provide training in the use of the atlas-based auto segmentation software and provide setup and configuration assistance at the customer's site.

Duration

1-day on-site training.

Target group

- Dosimetrists
- Physicists
- Treatment Planners

Further information

www.elekta.com/training

ERGO++ – Application Training

APPLICATIONS

Objective

To provide applications training in the use of ERGO++ for treatment planning. The course provides an understanding of the software enabling the user to efficiently create effective treatment plans.

Course content

- DICOM RT Import & Export
- Database Managing Image Processing (Contouring, Image Fusion)
- Stereotactic Calibration & QA
- Planning with Stereotactic Cones & Managing Cone Dosimetric Data
- Static and Dynamic Conformal planning
- Static and Dynamic AMOA/IMRT planning
- VMAT approach for planning with Elekta
- Plan Summation and Comparison

Duration

5-day in-house training.

Target group

- Dosimetrists
- Physicists
- Treatment Planners

Pre-requisite

- ERGO Treatment Planning system installed in the clinic
- 3D Treatment Planning Experience preferred
- Applicable licenses activated

Further information

www.elekta.com/training

ERGO++ – Application Follow-up Training

APPLICATIONS

Objective

To provide follow up applications training in the use of ERGO++ specific to Stereotactic Radiosurgery treatment planning. The course provides an understanding of the software and entire stereotactic workflow, enabling the user to efficiently create effective treatment plans.

Course content

- DICOM RT Import & Export
- Database Managing Image Processing (Contouring, Image Fusion)
- Stereotactic Calibration & QA
- Planning with Stereotactic Cones & Managing Cone Dosimetric Data
- Static and Dynamic Conformal planning
- Static and Dynamic AMOA/IMRT planning
- VMAT approach for planning with Elekta
- Plan Summation and Comparison

Duration

3-day on-site training.

Target group

- Dosimetrists
- Physicists
- Treatment Planners

Pre-requisite

- ERGO++ Application Training Course or at least 3-6 months experience using ERGO++
- Applicable licenses activated

Further information

www.elekta.com/training

Interplant®

APPLICATIONS

Objective

To provide applications training in the use of the Interplant prostate brachytherapy treatment planning system at the customer's site.

Duration

2-day on-site training (accredited by MDCB).

Target group

- Dosimetrists
- Physicists
- Treatment Planners
- Physicians

Further information

www.elekta.com/training

Oncology Management software with IT-systems for cancer care offers a number of training workshops to further educate customers about using Elekta Impac Software.

The fee based courses are available at Elekta offices in the US and at Regional Events through-out the world. In addition a series of training videos are available via an Internet-based support tool, accessible from www.elekta.com/supportplus.

The training videos are aimed as introductions for new staff, general product refreshers and preparation for pending software upgrades. New videos are posted often, check the website frequently to take advantage of these powerful training tools.

IN-HOUSE PROGRAMS/ REGIONAL EVENTS

Further information

The current schedule for courses is listed on the website at www.elekta.com/training

Information requests should be addressed to: info.education@elekta.com

Optimize the Use of MOSAIQ® in a Paperless Environment

IN-HOUSE PROGRAMS/REGIONAL EVENTS

Objective

This course will explore paperless configuration and clinical process to streamline paperless workflow. This course is designed for Elekta software customers who wants to create more efficient department paperless processes while learning how to incorporate the latest MOSAIQ features and configurations.

Content

- Configure Paperless Staff Security and Department Settings
- Utilize User Defined Schedules to expedite Scheduling Processes
- Replace Paper forms with eSCRIBE Templates
- Configure Document Batch Processing and Cover Sheets
- Create Quick Orders for Effortless Order entry in MOSAIQ
- Add, Print or Send Electronic Radiation Oncology Orders
- Use the Pharmacy Ordering Workspace
- Save time by Importing and Exporting Assessments
- Utilize Quick Approval to Improve Efficiency
- Learn how to use the Latest Code Capture Enhancements
- Use Code Sets to Streamline Scheduling and Billing Processes
- Streamline Processes with the New Home and Chart Workspace FeaturesUtilize Quick Approval to Improve Efficiency
- Open Discussion: Bring your questions and/or challenges regarding your paperless transition.

Pre-requisite

Understanding of MOSAIQ 1.6 and Higher

Training centers and duration

1-day course at:

- North America Elekta offices
- Regional event (on request)

ASRT and MDCB accredited

Target group

- Administrators
- Oncologists

Further information

www.elekta.com/training

Streamline Radiation Oncology Charting with MOSAIQ®

IN-HOUSE PROGRAMS/REGIONAL EVENTS

Objective

This course is designed for staff responsible for entering or managing radiation therapy prescriptions, dose tracking, treatment record, and image management process. Learn how to incorporate the latest Radiation Oncology features to streamline processes and improve efficiency.

Content

- Learn about the New Staff Security Settings for Radiation Oncology.
- Configure New Settings on the Clinical RO Tab in Department Setup
- Explore the New RO Charting Features
- Site Setup Verification
- Treatment Plan Approval & Enhancements
- Learn how to Use the New Couch Copy Enhancements
- Discover the Latest Image Features
- Image Registration
- 3D Viewer
- Setup Intelligence
- Learn about the latest Home & Chart Workspace Enhancements affecting RO

Pre-requisite

Basic understanding of Multi-ACCESS 8.3 and higher.

Training centers and duration

1-day course at:

- North America Elekta offices
- Regional event (on request)

ASRT and MDCB accredited

Target group

- Administrators
- Radiation Oncologists
- Therapists
- Dosimetrists
- Physicists

Further information

www.elekta.com/training

MOSAIQ® System Administration

IN-HOUSE PROGRAMS/REGIONAL EVENTS

Objective

This course will assist customers with MOSAIQ database configuration to improve efficiency and proper use of the application. Customers will walk through the configuration of the department setup, directories, and procedures and supplies library. The course is designed to support new and Multi-Access customers with system configuration of MOSAIQ for optimal utilization. Gain even more benefits from the course by bringing a personal laptop to access your network and MOSAIQ database.

Content

- Department Configurations
- Directory Configurations.
  - Staff Directory
  - Location Directory
  - Payer Directory
  - External/Facility Directory
- Procedure & Supplies Library
- Schedule Status Configuration
- Guideline Configuration
- Configuration of the Patient Log
- Learn how to Configure and Push Home & Chart Workspace Layouts

Training centers and duration

1-day course at:

- North America Elekta offices
- Regional event (on request) ASRT and MDCB accredited

Target group

- Administrators

Further information

www.elekta.com/training

Oncology Management – Under the Hood

IN-HOUSE PROGRAMS/REGIONAL EVENTS

Objective

To develop an understanding of the hardware and software components of MOSAIQ®. Isolation of problems and troubleshooting skills will be emphasized. This course is designed for technical staff.

Content

- Directory structure
- Network user rights
- Daily backups
- MOSAIQ System database engine
- MOSAIQ System module identification
- Peripheral hardware devices
- Physical peripheral hardware connections
- Software options associated with peripheral hardware
- Troubleshooting

Training centers and duration

2-day course at:

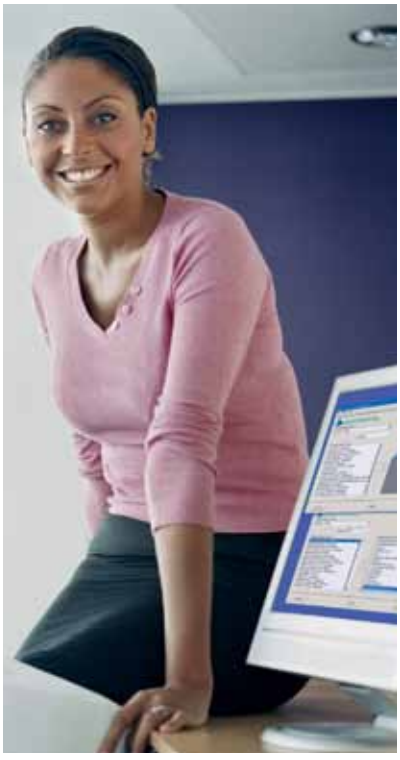
- North America Elekta offices
- Regional event (on request)

Target group

- IT Staff

Further information

www.elekta.com/training



Advanced Radiation Oncology Under the Hood – Microsoft SQL

IN-HOUSE PROGRAMS/REGIONAL EVENTS

Objective

This course will provide a basic understanding Microsoft SQL and how it is used with MOSAIQ®. Including how to install restore and backup the database. In addition, the course will discuss the importance of SQL Maintenance Jobs.

Content

- Understanding MOSAIQ SQL Database Architecture
- How to Install Microsoft SQL for MOSAIQ
- How to Restore & Backup the Database
- How to create and Maintain SQL Maintenance Jobs

Pre-requisite

Basic understanding of Multi-ACCESS 8.3 and higher.Under the Hood for Radiation Oncology/Medical Oncology

Training centers and duration

1-day course at:

- North America Elekta offices
- Regional event (on request)

Target group

- IT Staff

Further information

www.elekta.com/training

Advanced Radiation Oncology Under the Hood – Citrix

IN-HOUSE PROGRAMS/REGIONAL EVENTS

Objective

This course will provide a basic understanding of the Citrix Application and how it is used with MOSAIQ®. This course will also discuss how to install and configure the server and workstations for running MOSAIQ using Citrix.

Content

- Understanding the Basics of Citrix.
- How Citrix is Used with MOSAIQ
- How to Install Citrix server for MOSAIQ
- How to Configure a Workstation for MOSAIQ using Citrix

Pre-requisite

Basic understanding of Multi-ACCESS 8.3 and higher. Under the Hood for Radiation Oncology/Medical Oncology

Training centers and duration

1-day course at:

- North America Elekta offices
- Regional event (on request)

Target group

- IT Staff

Further information

www.elekta.com/training

Medical Oncology Administration

IN-HOUSE PROGRAMS/REGIONAL EVENTS

Objective

This course is designed for customers who want a head start on the implementation process, new staff, or those who missed on-site training.

During this one-day workshop participants will learn to configure the MOSAIQ® according to the department's requirements. Topics include: configuring HOME and Chart screens in the MOSAIQ User Interface, adding users, modifying/entering procedure and supply codes, linking medications to First Databank, and setting up tiered security for ordering/approving. This course is designed for the new or established MOSAIQ Administrator who wants to know "everything" about the application.

Content

- Configure User Views (Home and Chart views)
- Medications Formulary
- New department settings
- Patient log items
- Quality Checklist (QCL) items and templates
- User Defined Schedules
- Guidelines
- Link drugs in the Meds Formulary to the FDB Formulary
- Set screening levels for drugs
- Perform standard database maintenance, including archiving the User Log

Pre-requisite

Basic understanding of MOSAIQ 1.2 and higher.

Training centers and duration

1-day course at:

- North America Elekta offices
- Regional event (on request)

Target group

- Medical Oncology System Administrator
- Medical Oncology Department Manager

Further information

www.elekta.com/training

Medical Oncology Assessment/Care Plan Configuration

IN-HOUSE PROGRAMS/REGIONAL EVENTS

Objective

This course is designed for customers who want to learn how to build Assessments and Care Plans for their clinics, including tips and tricks for more effective Assessment/Care Plan building and examples of different ways to utilize Assessments.

Content

- Assessment Configuration
- Assessment Elements
- Assessment Completion
- Care Plans use within the IMPAC Oncology Management System
- Care Plan-specific reports
- Order Sets
- Department specific Care Plans
- Care Plan Modification
- Clinical Trial Care Plans
- Care Plan Assignment

Pre-requisite

Basic understanding of MOSAIQ® 1.2 and higher.

Training centers and duration

1-day course at:

- North America Elekta offices
- Regional event (on request)

Target group

- Medical Oncology Clinical Administrators
- Nurse Managers

Further information

www.elekta.com/training

Medical Oncology Order Management

IN-HOUSE PROGRAMS/REGIONAL EVENTS

Objective

This course is designed for customers who want to learn more about creating orders for patients and charting those orders. During this one-day workshop, participants will learn how to generate Medical Oncology orders via Care Plans, including the process for generating pharmacy and observation orders that are not included in a patient's care plan. This course is designed for clinical practitioners and RNs.

Content

- Clinician Worksheet (CWS)
- Diagnoses assignment and affirmation
- Care Plan assignment
- Order approval
- Modify orders
- Specific vs. non-specific changes to Orders
- View Orders
- Ad hoc pharmacy, test, and order set Orders from the Clinician Worksheet and Quick Rx
- Orders added via the Order browse window
- Print Orders and medication labels
- Verbal Orders
- Chemotherapy and Transfusion administration details
- Code Capture

Pre-requisite

Basic understanding of MOSAIQ® 1.2 and higher.

Training centers and duration

1-day course at:

- North America Elekta offices
- Regional event (on request)

Target group

- Medical Oncology Clinical Administrators
- Nurse Managers

Further information

www.elekta.com/training

MOSAIQ® Reporting – Introduction

IN-HOUSE PROGRAMS/REGIONAL EVENTS

Objective

During this two-day workshop, participants will develop data management, retrieval, and report writing skills for analysis of departmental performance and quality outcomes. Participants will learn how to generate reports using Crystal Reports and the MOSAIQ Data Dictionary. This course is designed for data administration staff and while it has no pre-requisites, basic MOSAIQ familiarity is highly recommended.

Content

- MOSAIQ vs Crystal Reports
- Run reports
- Configure Crystal Reports software
- MOSAIQ Data Dictionary
- MOSAIQ database
- Relational database
- Effective report writing
- Report layout within Crystal Reports
- Field types and tables from fields
- Differentiate fields from formulas
- Browse for field data
- Database tables
- Field labels and size
- Field placement within the report
- Select Expert
- Create parameters
- Sort data and Group data
- Advanced formatting techniques
- Crystal Reports error messages

Training centers and duration

2-day course at:

- North America Elekta offices
- Regional event (on request)

Target group

- Data Administration Staff

Further information

www.elekta.com/training

MOSAIQ® Reporting – Intermediate

IN-HOUSE PROGRAMS/REGIONAL EVENTS

Objective

During this two-day workshop, participants will further develop skills they gained through MOSAIQ Reporting – Introduction. Participants will learn report maintenance and configuration techniques, and work on their own reporting projects with the Impac instructor's assistance.

Content

- Modify embedded Impac Oncology Management reports
- Port modified embedded reports to a different database version
- Port custom reports to a different database version
- Configure custom reports to run from the MOSAIQ Report Navigator
- Understand report design requirements
- Translate design requirements to Crystal Reports functions
- Design reports to user specifications

Training centers and duration

2-day course at:

- North America Elekta offices
- Regional event (on request)

Target group

- Data Administration Staff

Pre-requisite

MOSAIQ Reporting - Introduction

Further information

www.elekta.com/training

MOSAIQ® Reporting – Advanced: Assessment Reporting

IN-HOUSE PROGRAMS/REGIONAL EVENTS

Objective

During this one-day hands-on course, participants will build on skills they gained through MOSAIQ Reporting – Introduction and Intermediate courses to learn advanced techniques for reporting against MOSAIQ Assessment (eVAL) data.

Content

- Review MOSAIQ Observation Definition Configuration (Chart Builder)
- Discuss reporting considerations when configuring Observation Definitions
- Relate Observation Definitions to underlying database tables
- Report individual Observations (e.g., Ht, Wt, BSA, etc.)
- Report groups of Observations (e.g., Assessment Views)
- Develop advanced reporting techniques including: multiple database table aliases, subreports, variables, etc.

Training centers and duration

2-day course at:

- North America Elekta offices
- Regional event (on request)

Target group

- Data Administration Staff

Pre-requisite

Successful completion of MOSAIQ Reporting – Introduction and MOSAIQ Reporting – Intermediate courses. Familiarity with MOSAIQ eVAL module and review of LPN11006 – "Customizing Assessment Forms" https://supportplus.impac.com/supportplus/pdf_zip/lpn11006.pdf

Further information

www.elekta.com/training

All About Billing

IN-HOUSE PROGRAMS/REGIONAL EVENTS

Objective

During this three-day workshop, participants will learn about configuring and using the Billing System. The course is designed for those who need the basics from the ground up, either as an initial introduction, or a refresher. If you are still confused about the difference between rebilling and printing a duplicate claim, then this is the course for you.

Content

- Directories
- Libraries
- Fee Schedule Creation and Maintenance
- System Utilities
- Basic Configuration
- Register Patients and Maintain Insurance Records
- Code Management
- Post Charges
- The Billing Process (Electronic & Paper)
- Post Insurance Payments
- Ledgers
- Manage Claims and Create Patient Statements
- Post Patient Payments and Co-payments
- Void Transactions

Pre-requisite

Basic understanding of MOSAIQ® 1.2 and higher

Training centers and duration

3-day course at:

- North America Elekta offices
- Regional event (on request)

Target group

- Billing Staff

Further information

www.elekta.com/training

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Further information
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