



Biograph™ Basic Course

Course Description

The **Biograph™ Basic** course is designed for the Nuclear Medicine, PET or CT Technologist who has purchased a Biograph PET/CT system and is new to the Biograph™ system. The course consists of two sections. The first section consists of a CT course taught by a CT instructor. In this section, the user will learn the basics of CT acquisition and processing. The user will also be instructed on the use of *syngo*® Viewing and 3D as it pertains to CT. The user will take home the ability to determine how scanning and processing parameters affect the image quality.

The second section of the course is the PET instruction taught by a PET instructor. In this section, the user will be given instruction on Biograph acquisition and processing, system maintenance, Esoft basics, and MultiSeries Viewer. Users will get instruction and hands on experience on the Biograph user interface using Biograph Simulators. A visit to the Biograph Scanner at the Training and Development is also scheduled

The classroom setting provides an optimal environment for learning without distractions and many opportunities for questions and answers. The course will enhance what the user will learn from the applications onsite visit.

The course starts on Tuesday at 8:30am and ends Friday at 12:00pm. Participants will receive 21 CEUs at the end of the course on Friday.

In order to be able to participate in hands on exercises using the biograph scanner, the customer must provide proof that he/she has been trained in radiation safety, such as an AART, NMTCB or CAMRT registration card. A copy of this can be faxed along with the registration form at 919-468-7401 or provided during class training. A copy will be retained at the Siemens Training and Development Center for our records. If this documentation is not provided, the customer will not be able to participate in hands on training.

Upon completion of this course, the participants will be able to:

- Have a basic understanding of CT acquisition and processing and how it relates to image quality.

- Understand and navigate the Biograph™ user interface.
- Navigate the *syngo*® Viewing task card
- Navigate *syngo*® 3D and Image Fusion
- Navigate the *syngo*® Patient Browser
- Understand system QC maintenance and reasons for doing so
- Take away a basic knowledge of PET and CT theory
- Navigate the *syngo*® MI Workplace user interface
- Use the Volumetric Analysis activity to calculate SUVs.

Audience

The Biograph course is designed for NM/PET and/or CT Technologists who have little or no experience with Biograph and e.soft systems and need assistance with the basics of operation required to perform their daily job duties.

Course/Skill Prerequisites

No prior course prerequisites are needed. The customer should have prior experience in scanning NM, PET or CT studies. A basic knowledge of computer keyboard and mouse operation is helpful.

Course Information

- CT Education
 - Course Introduction, *syngo*® Basics, CT Basics, CT Hardware, Patient *syngo*® Browser, *syngo*® Patient Registration, *syngo*® Viewing Task Card, *syngo*® Filming Task Card, Examination Task Card, 3D Processing, CT Image Quality, and CT Physics.
- PET Education
 - Biograph™
 - PET Physics, PET/CT Design, Radiation Safety, PET History, *syngo*® Image Fusion, Biograph™ Acquisition, System QC and Maintenance, and System Components.
 - *syngo*® MI Workspace
 - *syngo*® MI Workplace Command Module, PET/CT Workflows, Image Registration, Volumetric Analysis, Hardcopy Activity, and Completion Setup.