

Pulse Programming Course for Philips MRI Platform

Zurich, Switzerland

The Pulse Programming Course is directed towards advanced users of the Philips MRI platform who want to develop their own experimental pulse sequences in MRI and MRS. Addressing scientists with basic programming skills, this 5-day course provides all knowledge required to develop and run custom pulse sequences using the Philips pulse programming environment. Daily hands-on exercises with wrap-up sessions ensure success in implementing an example sequence. A non-disclosure agreement or a clinical science contract with Philips Healthcare is required for this course.

Monday:

- Overview of MR development at Philips
- Introduction to scanner system architecture
- Introduction to Goal-C++
- Gradient-, RF-, acquisition-, and sequence GOAL C++ objects
- Installation of programming environment
- Sequence development mode

Tuesday:

- Goal C++ parameters and groups objects
- Software components
- Software decomposition, file naming
- Advanced sequence development mode
- Quick prototyping concept with exercise

Wednesday:

- Parameter validation loop
- Coordinate systems and geometry handling
- On-line demo: How to pulse program
- Parameter wizard
- Hands-on programming project (part I)

Thursday:

- Code details; logging and debugging
- Simple sequence example
- Multix and custom RF shapes
- Sequence synchronization
- Safety considerations
- Hands-on programming project (part II)

Friday:

- Code structure for spectroscopy
- Controlling image reconstruction
- Software patch installation
- Running custom sequences on MR system
- Patch migration
- Hands-on programming project, (part III, testing on scanner)

Course fee: 2900 EUR

Course dates

and registration: online at www.gyrotools.com

