

Clinical Workshop

Advanced photon-counting CT in daily practice

Tentative: Dec 2025



Course design and objectives

The NAEOTOM Alpha class is a novel photon-counting computed tomography (PCCT) scanner for advanced imaging. The PCCT detector detects and counts individual X-ray photons and can offer higher spatial resolution and improved contrast compared to conventional CT. PCCT uses energy-resolving detectors that categorize photons based on their energy levels, enabling material decomposition and spectral imaging. With the novel technology comes the need to understand the physics and apply the knowledge into the daily routine.

This one-day classroom training for technologists and physicists teaches advanced photon-counting CT techniques in practice, especially around scanning and protocols. The course provides advanced interactive lectures on photon-counting CT best practices to leverage to full potential of the system in clinical routine. The attendees are guided through different clinical fields: cardiology, pulmonology, oncology and neurology, all based on the needs of the participants. For understanding the fundamentals, each session starts with explaining the reasoning behind ex-factory scan protocols by technical and application experts. Afterwards, best-practices and “do’s and don’ts “ from a global perspective are discussed and shown. We close each sessions with best practices for integration in scanner fleets, based on Siemens Healthineers CT scanners. As an outlook, best practices to develop and share own protocols completes the day.

Course content

- Cardiac session
- Pulmonology session
- Oncology session
- e.g., neurology, head and neck Session
- Hands-on protocol development and sharing



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Participant prerequisites

Basic knowledge in CT image acquisition, Reconstruction, and interpretation.

Course hours

8:30 a.m. to 5:00 p.m.

Costs

The course fee is 450.00 € excl. VAT.

Location

Siemens Healthineers
Lobby
Siemenstr. 3
91301 Forchheim

Hotel

Please contact ct.clinical-workshop.team@siemens-healthineers.com for hotel recommendations.

Participants

This course is designed for technologists and radiologists who would like to gain insights into the advanced physics of photon-counting CT for using these skills in daily routine.

Number of participants

5 to 20

Registration

ct.clinical-workshop.team@siemens-healthineers.com

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