METROLOGY FOR EXTERNAL RADIOTHERAPY





Course overview

This practical training, allows to acquire a methodology in order to ensure metrological traceability beams and to improve the accuracy of radiation treatments. The different sources of the most common uncertainties are analyzed.

Who is the course for?

- medical physicists,
- radiotherapy technicians
- engineers, researchers, PhD in Medical Physics

Entry requirements

practice an activity in radiotherapy

Competences covered

- Understand the reference dosimetry for photons and electrons beams
- Apply and understand TRS protocols used to measure the reference dose
- Be aware of the impact of the different factors involved in the dose measurement
- Read and use data from a calibration certificate
- Analyze the impact of uncertainties / errors on the result of the dose measurement

Duration 2 days

Location DOSEO Platform, CEA Saclay

Group limited to 14 persons

Contact Amélie Roué Tel: 01 69 08 60 83 / amelie.roue@cea.fr

Course code 39B

Please contact us for more information on this course.



linear accelerator of DOSEO platform (Credit: L Godart/ CEA)

Course content

- Metrological traceability from the primary reference to clinical beam
- Description of the various factors influencing the dose measurement
- Uncertainties on the measured dose
- Practical situation: ionization chamber measurements







Why take this course?

- ✓ metrological expertise of CEA / LNHB trainers
- ✓ Scenario on radiotherapy linear accelerator
- ✓ Partnership with DOSEO



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