



Regional Training Course on Advanced Quality Assurance in Computed Tomography

Hosted by

The Government of Hungary

through the

National Center for Public Health and Pharmacy

Budapest, Hungary

30 November to 4 December 2026

Ref. No.: TN-RER6045-2603083

Information Sheet

Purpose

The purpose of the event is to train the participants on how to assess the performance of modern computed tomography (CT) imaging technologies, use advanced image quality metrics and dose indices, and design and optimise CT protocols.

Working Language(s)

The working language(s) of the event will be English.

Deadline for Nominations

Nominations received after 28 September 2026 will not be considered.

Project Background

The technological advances in CT place higher demands on the medical physics profession, which is expected to play a central role in quality management systems through the strengthening of quality assurance (QA) and quality control (QC) programmes. Medical physicists in diagnostic radiology make an essential contribution to the optimization of X ray imaging procedures by ensuring an appropriate balance between image quality and radiation dose. Their responsibilities include patient dosimetry, image quality assessment, and support to medical practitioners in evaluating the effectiveness of imaging examinations. They contribute to the characterization, validation, and optimization of new imaging technologies. In CT specifically, medical physicists provide expert advice on image quality and radiation protection for patients, staff, and members of the public. They support healthcare facilities in matters related to equipment acquisition, installation, acceptance testing, commissioning, and shielding design. Medical physicists also perform and supervise tests to verify the safety and performance of CT equipment, advise radiologists and radiographers on protocol optimization, and oversee QA programmes, providing guidance and support to radiographers responsible for routine quality control activities. Project RER6045 builds on the results and achievements of previous regional projects and aims to improve the quality and safety of diagnostic and interventional radiology in the region by strengthening the capacity of medical physicists through enhancing their knowledge, skills, and competencies.

Scope and Nature

The regional training course will consist of lectures relevant to the contemporary technologies used in CT, image reconstruction algorithms, image quality metrics dose indices, CT protocols design and optimization followed by practical exercises in hospitals and classroom discussions.

Participation

The meeting is open to 25 participants from TCEU Member States participating in project RER6045, “Strengthening Medical Physics in Diagnostic and Interventional Radiology.” Each country is invited to nominate two participants who meet the profile described below, indicating their order of priority.

Participants' Qualifications and Experience

Given that the scope of the project is clinical diagnostic radiology, and in accordance with the requirements of the International Basic Safety Standards, participants should be clinically qualified medical physicists who are currently working, or have been recruited to work, in diagnostic radiology departments providing CT imaging services and who have experience with CT technology. In the absence of a suitable candidate, and with appropriate justification, a medical physicist working in radiotherapy or nuclear medicine who is involved in CT imaging may be nominated. This course is not intended for personnel working in regulatory authorities, inspectors, or radiographers. As the course will be conducted in English, participants should have a sufficient command of the language to follow and contribute to discussions, deliver presentations, and communicate effectively without difficulty.

Occupational Exposure to Radiation

This event may involve occupational exposure to radiation. Therefore, candidates are required to duly complete and return the Occupational Exposure History (OEH) form upon applying for the event. The IAEA will provide selected participants in due course with a dosimeter to monitor their occupational exposure during this event.

Application Procedure

Candidates wishing to apply for this event should follow the steps below:

1. Access the InTouch+ home page (<https://intouchplus.iaea.org>) using the candidate's existing Nucleus username and password. If the candidate is not a registered Nucleus user, she/he must create a Nucleus account (<https://websso.iaea.org/IM/UserRegistrationPage.aspx>) before proceeding with the event application process below.
2. On the InTouch + platform, the candidate must:
 - a. Finalize or update her/his personal details, provide sufficient information to establish the required qualifications regarding education, language skills and work experience ('Profile' tab) and upload relevant supporting documents;
 - b. Download and complete the [Designation of Beneficiary and Emergency Contact Form](#), and upload to InTouch+ ('Profile' tab under the personal section) specifying the document name. If already provided, kindly discard this step; and
 - c. Search for the relevant technical cooperation event (EVT2603083) under the 'My Eligible Events' tab, answer the mandatory questions and lastly submit the application to the required authority.

NOTE: Completed applications need to be approved by the relevant national authority, i.e. the National Liaison Office, and submitted to the IAEA through the established official channels by the provided designation deadline.

For additional support on how to apply for an event, please refer to the [InTouch+ Help page](#). Any issues or queries related to InTouch+ can be addressed to InTouchPlus.Contact-Point@iaea.org.

Should online application submission not be possible, candidates may download the nomination form for the training course from the [IAEA website](#).

NOTE: A medical certificate signed by a registered medical practitioner dated not more than four months prior to starting date of the event must be submitted by candidates when applying for a) events with a duration exceeding one month, and/or b) all candidates over the age of 65 regardless of the event duration.

Administrative and Financial Arrangements

Nominating authorities will be informed in due course of the names of the candidates who have been selected, and will at that time be informed of the procedure to be followed with regard to administrative and financial matters.

Selected participants will receive an allowance from the IAEA sufficient to cover their costs of lodging, daily subsistence and miscellaneous expenses. They will also receive either a round-trip air ticket based on the most direct and economical route between the airport nearest their residence and the airport nearest the duty station through the IAEA's travel agency AX Travel Management, or a travel allowance, or they will be reimbursed travel by car/bus/train in accordance with IAEA rules for non-staff travel.

Disclaimer of Liability

The organizers of the event do not accept liability for the payment of any cost or compensation that may arise from damage to or loss of personal property, or from illness, injury, disability or death of a participant while he/she is travelling to and from or attending the event, and it is clearly understood that each Government, in approving his/her participation, undertakes responsibility for such coverage. Governments would be well advised to take out insurance against these risks.

Note for female participants

Any woman engaged by the IAEA for work or training should notify the IAEA on becoming aware that she is pregnant.

The Board of Governors of the IAEA approved new International Basic Safety Standards for Protection against Ionizing Radiation and for the Safety of Radiation Sources. The Standards deal specifically with the occupational exposure conditions of female workers by requiring, inter alia, that a female worker should, on becoming aware that she is pregnant, notify her employer in order that her working conditions may be modified, if necessary. This notification shall not be considered a reason to exclude her from work; however, her working conditions, with respect to occupational exposure shall be adapted with a view to ensuring that her embryo or foetus be afforded the same broad level of protection as required for members of the public.

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