



**International Atomic Energy Agency**  
Department of Technical Cooperation

**IAEA-WCI-KAERI e-learning course on  
Diagnostic and therapeutic radioisotopes and radiopharmaceuticals application with  
intermediate-level regulation**

**Prospectus**

**Title:** E-learning course on diagnostic and therapeutic radioisotopes and radiopharmaceuticals application with intermediate-level regulation

**Host Institutes:** Korea Atomic Energy Research Institute (KAERI) in cooperation with the World Council on Isotopes (WCI)

**Date:** 21 July – 1 August 2025

**Deadline for Nominations:** 6 June 2025

**Organizers:** The Korea Atomic Energy Research Institute (KAERI) and World Council on Isotopes (WCI) in cooperation with the International Atomic Energy Agency (IAEA)

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**Language:** English

**Objective:** The objective of this e-learning course is to transfer the crucial knowledge updates to the participants, in the diagnostic and therapeutic radioisotopes, radiopharmaceuticals and applicable regulations for clinical translation. The aim is to support long term strategies for strengthening capacities, in this field participating countries

**Scope and Nature:** The e-learning course will take place over 2 weeks, including a kick-off meeting, closing meeting, lectures, Q&A, and assignments. The tentative lectures will cover the following:

- Module 1: Medical radioisotope production and quality control
- Module 2: Radiopharmaceuticals
- Module 3: Regulations for clinical trial and marketing authorization

**Trainees' Qualifications and Experience:** The trainees should be qualified or experienced in the following:

- Possess at least a scientific or technical bachelor's degree with basic knowledge of radioisotopes and their applications in nuclear medicine
- Proficient in English with good listening comprehension and communication skills in order to actively participate in the training course without difficulties.
- The managerial and directorial level public officials working in radioisotope and radiopharmaceutical related field are encouraged to apply

**Target Countries:** IAEA Member States

**Learning Platform:** Google Classroom (<http://classroom.google.com>)

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**Role of Administrator:**

The role of the administrator is to manage the e-learning course, inspect or check the trainees' learning schedule, and implement the reaction and behaviour evaluations of trainees. The reaction evaluation is closely linked to the degree to which trainees find the training favourable, engaging, and relevant to their jobs. The behaviour evaluation is also closely linked to the degree to which the trainees apply what they learn during the training when they are back on the job.

**Role of Tutor:**

The role of the tutor is to respond to the trainees' questions, promote discussions closely linked to the e-learning course, provide guidance and comments about the trainees' assignment activity in the e-learning course, and implement the trainees' learning evaluations. The learning evaluation is closely linked to the degree to which the trainees acquire the intended knowledge, skills, attitude, confidence, and commitment based on their participation in the training.

**Place of Learning:**

It is strongly recommended that each trainee prepare a place to be absorbed in his/her e-learning in the country (e.g. office, house, etc.). The place should have equipment (e.g., web-camera, headset, software, computer, Internet connection, etc.) necessary to participate in the e-learning course. In addition, the organizers do not provide the trainees with any auxiliary devices (e.g. CD (Compact Disc), USB flash drive, etc.).

**Type of Learning:**

The type of learning is based on e-learning. E-learning is a type of learning that utilizes electronic technologies to access an educational curriculum outside of a traditional classroom. The definition of e-learning is closely linked to courses that are specifically delivered via the Internet to somewhere other than the classroom where the professor

is teaching. It is not a course delivered via a DVD or CD-ROM, videotape, or television channel. It is interactive in that the e-learning trainees can also communicate with their tutor or other trainees in their desired places or in their respective locations. Sometimes the e-learning trainees can “electronically” raise their hand and interact in real time or may listen to a lecture that has been pre-recorded. There is always a tutor interacting/communicating with the e-learning trainees and grading their participation and their assignments.

**Procedure of Learning:**

The trainees will be provided with the purposes and contents of each subject in consecutive order when the trainees “click” the subject in the e-learning website on the learning platform (i.e., Google Classroom, <http://classroom.google.com>). The course’s purpose and contents help the trainees achieve the purpose of this e-learning course in the diagnostic and therapeutic radioisotopes and radiopharmaceuticals with intermediate-level regulation.

Before taking the e-learning course, all trainees should log into the Google Classroom (<http://classroom.google.com>) and register as a “Learner”. After registering, the administrator will permit the trainees’ registration as a “Learner”, and the trainees should check the learning environment to take the e-learning course (e.g. Internet connection, web camera, headset, etc.).

By taking an e-learning course, all trainees can or should participate in the following activities:

- Q&A

The trainees can post their question about the course in a separate section of the Google Classroom. After a question is posted, the tutor will answer the question.

- Assignment

The tutor will upload assignments in a separate section of the Google Classroom before the “Closing Meeting”. The purpose of these assignments is to check the extent of which the trainees understand all contents in this e-learning course. The tutor in this e-learning course will give a grade after the assignment.

- Kick-off and Closing Meeting

The Kick-off and Closing Meeting are similar to an opening ceremony and wrap-up ceremony, respectively, in the classroom training. Before starting this e-learning course, all trainees will be provided time to participate in the opening ceremony and wrap-up ceremony through e-mail.

**Criterion of Completion:**

Attendance (40%), and assignment (60%)

**Nomination Procedure:**

Nominations for the training course should be submitted to the IAEA online through the Technical Cooperation Department’s In Touch system (<http://intouch.iaea.org>). Should this not be possible, nominations may be submitted on the standard IAEA Nomination form

for training courses (available on the IAEA website: <http://www.iaea.org/>). Completed forms should be endorsed by relevant national authorities and returned to the Agency through the official channels, i.e., the designated National Liaison Office for IAEA Matters. Applications must be received by the International Atomic Energy Agency, P.O. Box, A-1400 Vienna Austria **no later than 6 June 2025**. Nominations received after this date or which have not been routed through the established official channels cannot be considered. The final selection of course trainees will be held jointly by the IAEA and communicated to KAERI and WCI. Advanced nominations by facsimile (+43-1-260007) or e-mail (to: [Official.Mail@iaea.org](mailto:Official.Mail@iaea.org)) are welcome. The facsimile/e-mail should contain the following basic information about the candidate(s): Name, age, gender, academic qualifications, and present position, including the exact nature of duties carried out, proficiency in English, and full working address (including telephone and fax numbers, as well as e-mail) to enable the IAEA to make a preliminary evaluation of, and communicate with, the candidates.

**Administrative Arrangements:** Nominated governments will be informed by the IAEA and, at that time, the selected trainees will be given full details of the procedures to be followed with information regarding the administrative matters. The trainees should cover all expenses (e.g., web camera, headset, software, computer, Internet connection, studio rental, etc.) necessary to participate in the e-learning course. In addition, the organizers do not provide the trainees with any auxiliary devices (e.g., CD (Compact Disc), USB flash drive, etc.). The organizers do not accept liability for the payment of any cost or compensation that may arise from damage or loss of personal property, illness, injury, disability, or death of a trainee while travelling to and from, or while attending, the course. It is clearly understood that each organization, in nominating the trainees, undertakes the responsibility for such coverage.