



RER/0/049: Enhancing the Capacities of Educational Institutions  
for the Sustainable use of Nuclear Technologies

# **Regional Workshop on the Development of Outlines of Train-the-Trainers Programme for University Educators in Nuclear Science and Technology (S&T)**

**Hosted by**

**The Government of Türkiye\***

**through the**

**Ministry of Energy and Natural Resources**

**Ankara, Türkiye\***

**4-8 September 2023**

**Ref. No.: ME-RER0049-EVT2303561**

## **Information Sheet**

### **Purpose**

The purpose of the event is to discuss the development of new harmonized training materials, topics and format of the Train the Trainers programme in nuclear science and technology.

The development will be based on identified gaps in educational programmes in different Member States and action plans to strengthen the capacities of nuclear and radiation educational and training providers. Existing education and training materials will be reviewed to ensure that they meet national workforce demands. This shall ensure the best practices that can bring greater efficiency and reduce the cost of education and training implementation. This event will also contribute to the improvement of the existing educational and training programmes and the establishment of new educational and training programmes.

### **Working Language(s)**

The working language of the event will be English.

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*(\*) Please note that the event is subject to the acceptance of the Host Government Agreement.*

## Deadline for Nominations

Nominations **received after 26 July 2023** will not be considered.

## Project Background

Education and training are key factors to the sustainability of the nuclear infrastructure at national and regional levels.

The problems of education and training requirements in some developing and industrialized countries are primarily associated with limitations on the resources and capabilities of universities in providing the required scope and quality of education and training. Adequate attention and resources must be devoted from the outset to the education and qualification of instructors and to the cooperation between universities and industry, to ensure the provision of hands-on experience and on the job training for nuclear professionals.

Thus, the Technical Cooperation project RER0049, *“Enhancing the Capacities of Educational Institutions for the Sustainable use of Nuclear Technologies”* aims to enhance the capacity and quality of educational institutions for the sustainable, safe, and secure use of nuclear technologies in Europe and Central Asia.

The project will facilitate the sharing of information and exchange of knowledge and expertise between countries with well advanced educational programmes and those that need further assistance to optimize and enhance their education programmes. The project offers high impact opportunities such as the establishment and strengthening of nuclear education programmes, resource optimization and development of partnerships.

To do so the project aims to: 1) identify the gaps and training needs and the prepare an action plan; 2) identify and assess the available training materials and develop harmonized training materials/ programme, 3) develop the Train the Trainers (TTT) material and implement, 4) evaluate the training material and feedback to finalize the material. Based on experience gained from the previous TC project and initiatives the following activities will be promoted: provision of TTT events for lecturers, the finalisation of training materials, expert missions and workshops to share experience and Scientific Visits (SVs).

## Scope and Nature

The objectives of the Regional Workshop are as follows:

- i. Analyse information submitted by MS in the field of nuclear and radiation education programmes and identify opportunities for harmonization and collaboration for lecturing and training materials
- ii. Discuss the mapping of topics and the development of harmonized lecturing and training materials/programmes;
- iii. Select training material of common-interest to be developed in the field of nuclear and radiation education, including their delivery format, content upgrades and/or new additions.
- iv. Develop outline for the Train the Trainers (TTT) programme for effective training of potential instructors / teachers and teaching assistants in universities or training centres,

It is expected that every participating country will provide information reflecting on:

- i. TTT topics, lecturing and guidance materials used
- ii. Best practices in facilitation skills and lessons learned from experience in delivering educational programmes in universities;
- iii. Topics and proposals for educational materials development
- iv. Knowledge transfer which can be facilitated/provided to other universities within the region of Europe and Central Asia.

## Expected Outputs:

Throughout the Regional Workshop, the participants will finalize key outputs for the project:

- Existing TTT topics, lecturing and training materials in universities
- Generic TTT model(s) that will provide prospective teachers/ teaching assistants and instructors with knowledge of their roles, duties, skills and competences that students need to acquire through the educational programme, together with practical skills to design, deliver a training sequence on technical topics, and evaluate its performance on knowledge transfer.
- The TTT model will include the format, step process, content outline and practical activities/ applications on selected topics under the i) nuclear power engineering, ii) radioprotection and iii) medical physics disciplines.
- List of educational e-learning or classroom topics and specific applications to be developed, with a short description of the missing content or upgrades needed.

## Participation

The regional meeting is open to Albania, Armenia, Azerbaijan, Belarus, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, Czech Republic, Estonia, Georgia, Greece, Hungary, Kazakhstan, Kyrgyzstan, Latvia, Lithuania, Montenegro, Poland, Portugal, North Macedonia, Romania, Russian Federation, Serbia, Slovakia, Slovenia, Tajikistan, Turkey, Ukraine, and Uzbekistan.

Each Member State can nominate up to two candidates, out of which one required to have experience in developing educational & training materials and delivering TTT training courses.

## Participants' Qualifications and Experience

Nominated candidates should be the representatives of the counterpart institutions or/and Project Counterparts designated for the TC Project RER0049.

They should have an educational background in one of following scientific disciplines: nuclear engineering, nuclear and radiation sciences and technologies, or medical physics; they should have experience in developing and delivering educational programmes at the university level, and /or experience to train trainers and instructors and developing TTT courses and guidelines.

## 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 (**EVT2305561**) 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](mailto:InTouchPlus.Contact-Point@iaea.org).

Should online application submission not be possible, candidates may download the nomination form for the meeting from the [IAEA website](#) and submit their applications to their National Authorities. The nomination forms once fully approved can be submitted by e-mail in a PDF format through the official channels via the IAEA Official E-Mail ([Official.Mail@iaea.org](mailto:Official.Mail@iaea.org)) with copy to Ms Alic ([E.Alic@iaea.org](mailto:E.Alic@iaea.org)) and Ms Urazgaliyeva ([A.Urazgaliyeva@iaea.org](mailto:A.Urazgaliyeva@iaea.org)).

**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 American Express, or a travel grant, 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.

# IAEA Contacts

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