



# **Interregional Training Course on Nuclear Power Infrastructure Development**

**Hosted by**

The Government of Japan

**through the**

JAIF International Cooperation Center (JICC)

Tokyo, Japan

**4 – 22 November 2024**

**Ref. No.: TN-INT2024-2400636**

## **Information Sheet**

### **Purpose**

The purpose of this event is to provide an overview of the IAEA's Milestones Approach and the 19 infrastructure issues that countries should consider when developing a nuclear power programme, with a focus on nuclear safety and safety infrastructure.

### **Working Language**

The training course will be conducted in English

### **Deadline for Nominations**

Nominations received after **30 August 2024** will not be considered.

## Project Background

As a low carbon source of energy, nuclear power is expected to play an increasing role in the energy mix of many countries around the world — for energy security and sustainable development, as well as for addressing environmental concerns. With more countries starting the operation of their first nuclear power plants (NPPs), as well as significant expansion in some countries, total global nuclear capacity is expected to grow despite the expected shutdown of several nuclear power plants in the coming years, with new technologies also expected to contribute in this regard. A nuclear power programme is a major undertaking requiring careful planning, preparation and investment in time, institutions and human resources. Nuclear power requires establishing a sustainable national infrastructure that provides governmental, legal, regulatory, managerial, technological, human resource, industrial and stakeholder support for the nuclear power programme throughout its life cycle. The INT2024 project aims to support participating Member States in creating an enabling environment to facilitate the safe, secure and sustainable introduction or expansion of nuclear power. It is intended to address the common issues identified in many of those Member States. It builds on the lessons learned from three previous four-year interregional projects in this field of activity (INT2013, INT2018 and INT2021) with adaptations to match the needs of the Member States.

## Scope and Nature

This training course is planned for three weeks and will be delivered as a combination of classroom lectures, field exercises at nuclear facilities and training centres and different site visits.

It will cover the Milestones Approach, including the three key organizations and the 19 infrastructure issues. The course will emphasize issues related to nuclear safety and safety infrastructure.

The course will mainly consist in a series of presentations delivered by IAEA staff, international experts, and experts from Japan. The programme will also include discussions, case studies and exercises, peer-to-peer exchange of good practices, and working group sessions on related topical issues.

The training course will also include lessons learned from the Fukushima Daiichi Accident including a visit to the Fukushima Daiichi Nuclear Power Station and a visit to an Emergency Preparedness and Response Center.

Finally, the training course will provide opportunities for participants to network and continue sharing information and good practices as well as other potential follow-up tasks and coordinated activities, as appropriate.

### **References:**

For all references covering the Milestones Approach and the 19 infrastructure issues, please refer to the IAEA Infrastructure Bibliography:

<https://www.iaea.org/topics/infrastructure-development/bibliography>

More IAEA publications and information about IAEA services are available at the following sites:

- <https://www.iaea.org/publications>
- <https://www.iaea.org/resources/safety-standards>
- <https://www.iaea.org/resources/treaties/treaties-under-IAEA-auspices>

## **Expected Outputs**

The expected outputs of the training course are:

- Improved knowledge about nuclear power technology.
- Broader understanding of the IAEA Milestones approach and the 19 infrastructure issues.
- Improved knowledge in the specific areas of nuclear safety and safety infrastructure.
- Enhanced networking opportunities among participants.

## **Participation**

The event is open up to 20 participants from the following Member States participating in the INT/2/024 project involved in new or expanding nuclear power programmes, specifically:

Algeria, Argentina, Armenia, Bolivia, Brazil, Bulgaria, Burkina Faso, Chile, Czech Republic, El Salvador, Estonia, Ethiopia, Ghana, Guatemala, Hungary, Indonesia, Islamic Republic of Iran, Iraq, Jamaica, Jordan, Kazakhstan, Kenya, Kuwait, Kyrgyzstan, Laos, Lithuania, Malaysia, Mexico, Mongolia, Morocco, Niger, Nigeria, Pakistan, Paraguay, Philippines, Romania, Rwanda, Senegal, Serbia, Singapore, Slovakia, South Africa, Sri Lanka, Thailand, Tunisia, Uganda, United Republic of Tanzania, Uzbekistan, Venezuela, Viet Nam, Zambia, Zimbabwe.

## Participants' Qualification and Experience

This training course is open to professionals from Member States that are considering, actively preparing nuclear power infrastructure or have made a decision to embark on new nuclear power programmes as well as those Member States expanding their existing nuclear power programmes. The training course is suitable for staff from the government or Nuclear Energy Programme Implementing Organization, nuclear regulatory body, owner/operator organization, utilities, and education and training organizations who have direct responsibilities in one or more of the 19 infrastructure issues. Organizations may wish to consider nominating staff that have been newly hired and/or are not yet familiar with the IAEA's Milestones Approach.

All candidates must provide a short summary (one to two paragraph) of how the outputs of this training will provide direct benefit to their current or future job position.

Individuals who participated in this course or a course with similar objectives in the past five years should not apply.

Participants are encouraged to complete the following IAEA E-Learning Module before joining the course:

- **Implementing a Nuclear Power Programme**  
[https://nucleus.iaea.org/sites/connect-members/cbh/publicpages/E\\_Learning\\_Modules/01/Default.htm](https://nucleus.iaea.org/sites/connect-members/cbh/publicpages/E_Learning_Modules/01/Default.htm)
- **Building a National Position**  
[https://nucleus.iaea.org/sites/connect-members/cbh/publicpages/E\\_Learning\\_Modules/15/Default.htm](https://nucleus.iaea.org/sites/connect-members/cbh/publicpages/E_Learning_Modules/15/Default.htm)
- **Safety Infrastructure**  
[https://nucleus.iaea.org/sites/connect-members/cbh/publicpages/E\\_Learning\\_Modules/09/Default.htm](https://nucleus.iaea.org/sites/connect-members/cbh/publicpages/E_Learning_Modules/09/Default.htm)
- **Feasibility Study**  
[https://nucleus.iaea.org/sites/connect-members/cbh/publicpages/E\\_Learning\\_Modules/07/Default.htm](https://nucleus.iaea.org/sites/connect-members/cbh/publicpages/E_Learning_Modules/07/Default.htm)
- **Management of a Nuclear Power Programme**  
[https://nucleus.iaea.org/sites/connect-members/cbh/publicpages/E\\_Learning\\_Modules/04/Default.htm](https://nucleus.iaea.org/sites/connect-members/cbh/publicpages/E_Learning_Modules/04/Default.htm)

# 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. Search for the relevant Technical Cooperation event (**EVT2400636**) 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. **All nominations must include a scan of the candidate's first page of passport with photo.**

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 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.

## Training on Basic Security in the Field (BSITF)

In order to comply with UN system-wide security measures, it is required that all training course participants complete the online security awareness training BSAFE (which replaces BSITF and ASITF), prior to traveling to locations where UN security phases are in effect. The aim of these course is to educate participants on how best to avoid or minimize potential dangers and threats, and to demonstrate what individuals can do if they find themselves in insecure situations. The course is available online (<https://training.dss.un.org/course/category/6>).

Once an individual has completed the training, he/she must go back to the main training page to receive the certificate. If the button to get the certificate is not immediately visible, please refresh the page. BSAFE is maintained by UNDSS; in case of problems with the system, please contact UNDSS through the "Contact Us" page on the training website (<https://dss.un.org/dssweb/contactus.aspx>).

This certificate is compulsory for any IAEA-supported activity and should be submitted, along with the Nomination Form, through the competent authority in your country (NLO). Copies of the certificate should be kept by the candidate for his/her records as the BSAFE certificate does not expire.

## **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.

**NOTE:** The event will be hosted by the Government of Japan, therefore nominated participants who require a visa to enter Japan should submit the necessary application to the nearest diplomatic or consular representative of Japan as soon as possible.

## **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 course, 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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