



Interregional Training Course on Nuclear Power Plant Contract Specifications and Reactor Technology Assessment

Hosted by

The Government of Brazil

through

The Federal University of Rio de Janeiro (UFRJ)

Rio de Janeiro, Brazil

27 November to 1 December 2023

Ref. No.: TN-INT2021-2301332

Information Sheet

Purpose

The purpose of the event is to train the participants from Member States, who are preparing to invite bids or negotiate a contract for a nuclear power plant with a technology-neutral approach to determine contract specifications and assess reactor technologies for near-term deployment.

Working Language

The working language of the event will be English.

Deadline for Nominations

Nominations received after **02 October 2023** will not be considered.

Scope and Nature

Within the context of the IAEA Milestones Approach to developing a national infrastructure for nuclear power, this training course will provide further information, guidance, tools and practical experiences on:

- Determining contract specifications and evaluation criteria;
- Developing competence to manage a nuclear power plant procurement process;
- Types of proven design of nuclear power plants and potential suppliers;
- Main technical characteristics of nuclear power plants; and
- Reactor technology assessment with hands-on practical exercise based on the IT-Toolkit, ARIS database and inputs from the participants.

The training course will include presentations, interactive activities and peer-to-peer information exchange. International experts as well as IAEA staff will present and share their experience, highlighting common challenges and good practices. Sessions on reactor technology assessment will provide hands-on practical learning of the IAEA methodology based on the refined methodology, use of IT-Toolkit, ARIS database and participants inputs.

References:

- IAEA Contracting Toolkit,
<https://nucleus.iaea.org/sites/connect-members/msn/nuclearcontractingtoolkit/SitePages/Home.aspx>
- IAEA Nuclear Energy Series No. NG-T-3.2 (Rev. 1) Evaluation of the Status of National Infrastructure Development
- IAEA Nuclear Energy Series No. NG-T-3.9 Invitation and Evaluation of Bids for Nuclear Power Plants
- IAEA Nuclear Energy Series No. NR-T-1.10 (Rev.1) Nuclear Reactor Technology Assessment for Near Term Deployment
- IT-Toolkit: IRIS (iaea.org)
- ARIS database, <https://aris.iaea.org/> ; <https://aris.iaea.org/sites/Publications.html>
- Safety Standards Series No. SSR-2/1 (Rev. 1), Safety of Nuclear Power Plants: Design

Expected Outputs

The expected outputs of this training course are:

- Participants will gain knowledge and become familiar with relevant available resources related to technology-neutral approach to determining contract specifications and assessing reactor technologies; in particular, within the context of the IAEA Milestones Approach to developing a national infrastructure for nuclear power;
- Participants will exchange experience in discussions with peers and experts and advance their knowledge relevant to the course topics through practical exercises and teamwork;
- Participants will gain new knowledge through hands-on exercise on reactor technology assessment methodology based on their own country specifics or on supplied materials, and selected SMRs and advanced WCRs designs.

Participation

The event is open to 30 participants from the Member States participating in the INT/2021 project which need assistance to enhance the number and knowledge of staff involved in launching or expanding nuclear power programmes:

Argentina, Armenia, Bangladesh, Brazil, Bulgaria, Czech Republic, Egypt, Ghana, Hungary, Jordan, Kenya, Lithuania, Mexico, Nigeria, Poland, Romania, Saudi Arabia, Slovakia, South Africa, Türkiye, Uzbekistan

Participants' Qualifications and Experience

The target audience of this Training Course are the individuals working in Member States' governments/nuclear energy programme implementing organizations (NEPIOs) or prospective owner/operator organizations, particularly those with responsibility for preparing contract specifications and/or assessing reactor technologies.

Participants are encouraged to complete the following IAEA eLearning modules before joining the course:

- **Implementing a Nuclear Power Programme**
https://nucleus.iaea.org/sites/connect-members/cbh/publicpages/E_Learning_Modules/01/Default.htm
- **Procurement**
https://nucleus.iaea.org/sites/connect-members/cbh/publicpages/E_Learning_Modules/17/Default.htm
- **E-Learning on Feasibility**
https://nucleus.iaea.org/sites/connect-members/cbh/publicpages/E_Learning_Modules/07/Content/FrameCookie.htm
- **E-Learning module on Reactor Technology Assessment**
<https://elearning.iaea.org/m2/course/index.php?categoryid=162>

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 (**EVT2301332**) 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.

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 Brazil, therefore nominated participants who require a visa to enter **Brazil** should submit the necessary application to the nearest diplomatic or consular representative of **Brazil** 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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