



# **Interregional Training Course on Procurement and Supply Chain Management of Nuclear Power Plants**

**Hosted by**

**The Government of the Republic of Korea**

**Through the**

**Korea Nuclear Association for International Cooperation (KNA)**

**14 – 18 October 2024**

**Ref. No.: TN-INT2024-2401701**

## **Information Sheet**

### **Purpose**

Nuclear power plants employ sophisticated engineering to generate electricity and heat for periods of at least 40 to 60 years. Various suppliers provide related products and services for NPP operators, throughout the life cycle of nuclear power plants (NPPs) in design, manufacturing, construction, operation, and decommissioning. All suppliers need to comply with well-established requirements and have a sustainable purchasing system for choosing their suppliers independently if they supply products and services to a main contractor or to the owner/operator.

In recent years, the construction and operation of NPPs have been impacted by significant supply chain related challenges. The use of commercial grade items has increased, and there have been temporary shutdowns of NPPs due to the installation of counterfeit, fraudulent or substandard items. COVID-19, supply chain disturbances and sometimes even conflicts have impacted the availability of products and the mobility of service suppliers, and local supplier alternatives have become important. Effective and efficient oversight of the global nuclear supply chain is crucial to both safety and time schedule in nuclear new build.

This event belongs to the IAEA's activities related to the exchange of good practices on the management of nuclear supply chains and procurement in the Member states, and it is directed towards advanced newcomer Member States and the member States expanding their nuclear

programmes, as they need competences to deal with qualifying and overseeing the suppliers.

The purpose of the event is to train the participants on the general topics pertaining to the supply chain management of nuclear power plants including proactive approaches to assure the quality of procurement, manufacturing-related verification activities, and necessary actions when receiving the products and services, etc. Ample example material will be provided for this training course.

## Working Language

The training course will be conducted in English.

## Deadline for Nominations

Nominations received after **31 May 2024** will not be considered.

## Scope and Nature

This training course is planned for one week and will include a combination of classroom lectures, discussions, site visits, practical examples, and interactive exercises.

The training course will be conducted as a series of presentations by IAEA staff and international experts. The programme will also include discussions and peer-to-peer exchange of good practices.

### [ References ]

- IAEA, Leadership and Management for Safety, IAEA Safety Standards Series No. GSR Part 2, IAEA, Vienna (2016).
- IAEA, Application of the Management System for Facilities and Activities, IAEA Safety Standards Series No. GS-G-3.1, IAEA, Vienna (2006).
- IAEA, The Management System for Nuclear Installations, IAEA Safety Standards Series No. GS-G-3.5, IAEA, Vienna (2009).
- IAEA Nuclear Energy Series No. NG-G-3.1, Rev. 1, “Milestones in the Development of a National Infrastructure for Nuclear Power”
- IAEA Nuclear Energy Series No. NG-T-3.1, “Initiating Nuclear Power Programmes: Responsibilities of Owners and Operators”
- IAEA Nuclear Energy Series No. NG-T-3.2, Rev.1, “Evaluation of the Status of National Nuclear Infrastructure Development”
- IAEA Nuclear Energy Series NP-T-3.21, “Procurement Engineering and Supply Chain Guidelines in Support of Operation and Maintenance of Nuclear Facilities”;
- IAEA Nuclear Energy Series NP-T-3.26, “Managing Counterfeit and Fraudulent Items in the Nuclear Industry”;
- IAEA Nuclear Energy Series NG-T-3.4, “Industrial Involvement to Support a National Nuclear Power Programme”;
- IAEA, Management of Nuclear Power Plant Projects, Nuclear Energy Series NG-T-1.6,
- IAEA, Project Management in Nuclear Power Plant Construction: Guidelines and Experience, NP-T-2.7,
- IAEA TECDOC No. 1740, “Use of a Graded Approach in the Application of the Management System Requirements for Facilities and Activities”;
- IAEA TECDOC No. 1910, “Quality Assurance and Quality Control in Nuclear Facilities and Activities”;
- IAEA TECDOC No. 2034, “Suitability Evaluation of Commercial Grade Products for Use in Nuclear Power Plant Safety Systems”.

## Expected Outputs

The expected outputs of the training course are improved knowledge and understanding in the following areas:

- The IAEA Milestones approach and its relevant elements leading to a successful management of suppliers of products and services for a problem-free nuclear power plant project;
- The roles, responsibilities and key features of the government/NEPIO, owner/operator and regulatory body enabling a well-functioning supply chain for a nuclear project;
- IAEA tools and services in support of the development and management of nuclear project supply chain;
- Improved knowledge of procurement strategy, scenarios, quality, graded approach, and procurement practice;
- Better understanding of the international requirements and guidelines on nuclear supply chain management and procurement;
- Improved knowledge of mechanisms for supplier evaluation and qualification;
- Understanding the current issues dealing with the international nuclear supply chain and potential ways to find solutions including local supplier involvement; and
- The training course will also provide participants with the opportunity to share and discuss common challenges and lessons learned, fostering enhanced networking between Member States embarking on new nuclear power projects and programmes.

## Participation

The event is open up to 25 participants from the following Member States participating in the INT2024 project which need assistance to enhance the number and knowledge of staff involved in launching or expanding nuclear power programmes, namely:

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

## Participants' Qualification and Experience

This training course is open from junior to senior professionals from Member States that are or will be involved in the supply chain or procurement topics in the nuclear power programme or project. The training course is especially suitable for personnel from Owner/Operator organizations. In addition, nuclear regulatory bodies, government officers, suppliers and nuclear energy programme implementing organizations (NEPIOs) with responsibilities related to supply chain or procurement management may consider to attending.

In their application, candidates are requested to submit a summary of how this training will provide direct benefit to their current or future job position.

Participants are encouraged to get acquainted with the following IAEA E-Learning and other virtually available modules before joining the course:

[ E-learning ]

- Industrial Involvement: Optimizing local industrial involvement provides guidance on effective approaches to optimize local industrial involvement in nuclear power programmes
- Procurement: Procurement provides an overview of procurement issues related to nuclear

facilities, and a perspective on the importance of effective procurement processes.

#### [ Other Materials ]

- Nuclear Supply Chain Webinar Series: <https://www.iaea.org/about/organizational-structure/department-of-nuclear-energy/division-of-nuclear-power/nuclear-power-engineering-section/nuclear-supply-chain-webinar-series>
- Online Course on Nuclear Supply Chain and Procurement Management: Online Course on Nuclear Supply Chain and Procurement Management | IAEA

## 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 (**EVT2401701**) 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 in Ulsan and Changwon, therefore nominated participants who require a visa to enter Republic of Korea should submit the necessary application to the nearest diplomatic or consular representative of Republic of Korea 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 she/he is travelling to and from or attending the course, and it is clearly understood that each Government, in approving her/his 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.

## **Programme Management Officer**

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