



Interregional Training Course on Integrated Management System, Leadership and Safety Culture

Hosted by

The Government of the United States of America

through the

Argonne National Laboratory

Lemont, IL, United States of America

24 October to 4 November 2022

Ref. No.: TN-INT2021-EVT2202270

Information Sheet

Purpose

The purpose of the event is to train participants from Member States embarking on or expanding their nuclear power programmes on the establishment of management systems nuclear leadership and safety culture, in accordance with the IAEA Safety Standards and other relevant IAEA guides.

Working Language

The event will be conducted in English

Deadline for Nominations

Nominations received after **30 June 2022** will not be considered.

Project Background

Management and leadership are two distinctively different areas that both interface with the culture of a nuclear organization. Leadership skills in a nuclear power programme and project are crucial, and highly competent managers focused on leading their personnel are vital to success at all life cycle phases of a nuclear facility. The management system is a vital element for a safe sustainable nuclear project. Finally, a healthy organizational culture is necessary for safety and economic success. Attendees will be receiving lectures in all these areas and will participate in exercises that help them apply the teachings in practice.

Scope and Nature

The event is planned to last for two weeks. The following themes, among other will belong to the scope.

- Understanding and implementing GSR Part 2 requirements and other IAEA guidance for safe, efficient and effective nuclear programmes and projects
- Establishing an integrated and process-based management system with its different levels and parts
- Developing management system processes
- Implementing quality assurance and supply chain management processes
- Conducting various assessment activities, such as self-assessments, independent assessments, and management system reviews
- Understanding the relationship between management system and project management
- Managing project interfaces and effective communication between interested parties
- Understanding the special challenges of a nuclear power plant engineering and construction project when compared to other projects
- Developing effective non-conformance management including corrective action processes
- Developing nuclear leadership to motivate the personnel in a suitable manner in different situations
- Understanding differences between nuclear leadership in normal and in emergency situations
- Developing and evaluating a healthy organisational culture for safety, quality and sustainability
- Understanding the necessary activities for the owner/operator organizations and regulatory bodies in Phases 2 and 3
- Understanding the processes to support the implementation of the activities in Phase 2 and 3 for owner/operator organisation
- Understanding the processes to support the implementation of the activities in Phase 2 and 3 for regulatory body
- Exercises dealing with the areas mentioned above

The training course will also give opportunities for participants to network and continue sharing information and good practices beyond the training event, as well as other potential future follow-up tasks and coordinated activities related to the topics of the course. A visit to one NPP or to its training centre is tentatively planned (subject to confirmation).

REFERENCES:

It is suggested that the forthcoming participants get familiar with the following references:

IAEA Safety Standards, No. SF-1. Fundamental Safety Principles. Retrieved from <https://www-pub.iaea.org/MTCD/publications/PDF/Pub1273-web.pdf>

IAEA Safety Standards, No. GSR Part 2. Leadership and Management for Safety. Retrieved from <https://www-pub.iaea.org/MTCD/Publications/PDF/Pub1750web.pdf>

IAEA Safety Standards, Application of Management System for Facilities and Activities No. GS-G-3.1, IAEA, Vienna (2006). [Application of the Management System for Facilities and Activities | IAEA](#)

IAEA Safety Standards, The Management System for Nuclear Installations No. GS-G-3.5, IAEA, Vienna (2009). [The Management System for Nuclear Installations | IAEA](#)

Milestones in the Development of a National Infrastructure for Nuclear Power, IAEA Nuclear Energy Series NG-G-3.1 (Rev. 1), Vienna (2015) [Milestones in the Development of a National Infrastructure for Nuclear Power | IAEA](#)

Development and Implementation of a Process Based Management System, IAEA Nuclear Energy Series NG-T-1.3, Vienna (2015) [Development and Implementation of a Process Based Management System | IAEA](#)

Management of Nuclear Power Plant Projects, IAEA Nuclear Energy Series NG-T-1.6, IAEA, Vienna (2020). [Management of Nuclear Power Plant Projects | IAEA](#)

Procurement Engineering and Supply Chain Guidelines in Support of Operation and Maintenance of Nuclear Facilities, IAEA Nuclear Energy Series No. NP-T-3.21, IAEA, Vienna (2016). [Procurement Engineering and Supply Chain Guidelines in Support of Operation and Maintenance of Nuclear Facilities | IAEA](#)

Leadership, Human Performance and Internal Communication in Nuclear Emergencies, IAEA Nuclear Energy Series NG-T-1.5, Vienna (2018) [Leadership, Human Performance and Internal Communication in Nuclear Emergencies | IAEA](#)

IAEA Leadership Blueprint, [IAEA Leadership Blueprint](#)

For more references, please see the bibliography: <https://www.iaea.org/topics/infrastructure-development/bibliography#section-6>.

Expected outputs

The expected outputs of the training course are:

- Improved ability to address the challenges and issues related to building a management system and integrating its elements;
- Enhanced capability to design and implement management systems in organizations active in nuclear power projects and programmes;
- Understanding of how important leadership of people is to the success of the nuclear power projects and tools to develop it;
- Establishing and maintaining a healthy organizational culture for safety;
- Improved understanding of the IAEA guidance and services related to the development of nuclear power projects & programmes; and,
- Enhanced knowledge on developments internationally through networking among participants.

Participation

The event is open up to 25 participants from the following Member States participating in the INT/2/021 project which need assistance to enhance the number and knowledge of staff involved in launching or expanding nuclear power programmes, namely:

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

Priority will be given to candidates from countries that are currently in Phase 2 in the development of the national infrastructure for a nuclear power programme and countries who are expanding their current nuclear programmes. Also, candidates from countries in Phase 3 will be considered on a need basis.

Participants' Qualification and Experience

The target audience of this training course are current/forthcoming managers, management system specialists or project managers from future/current owner-operator organizations and regulatory bodies. Participants may have responsibilities related to management system, quality management system, project management, nuclear energy programme or their different parts.

Additional preparatory work, learning materials and reference literature may be sent to the approved participants with the course programme.

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 (**EVT2202270**) 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.

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.

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 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.

IAEA Contacts

Programme Management Officer (responsible for substantive matters):

Mr Jing Zhang
Division for Europe
Department of Technical Cooperation
International Atomic Energy Agency
Vienna International Centre
PO Box 100
1400 VIENNA
AUSTRIA
Tel.: +43 1 2600 26540
Fax: +43 1 26007
Email: J.Zhang@iaea.org

Administrative Contact (responsible for administrative matters):

Ms Kirsten Glenn
Division for Europe
Department of Technical Cooperation
International Atomic Energy Agency
Vienna International Centre
PO Box 100
1400 VIENNA
AUSTRIA
Tel.: +43 1 2600 22316
Fax: +43 1 26007
Email: K.Glenn@iaea.org