



Virtual - Interregional Training Course on Environmental Remediation Site Characterization

Hosted by

The International Atomic Energy Agency

IAEA Headquarters
Vienna, Austria

11 – 14 & 18 – 21 October 2021

Ref. No.: TN-INT2020- 2102574

Information Sheet

Purpose

The purpose of this virtual event is to provide an overview of key aspects related to site characterization to support decision-making in the scope of site environmental remediation and management including elements of design, implementation of data acquisition, visualization, and interpretation.

Working Language

The working language of the event will be English.

Deadline for Nominations

Nominations received after **30 August 2021** will not be considered.

Project Background

This Interregional Project INT2020 is developed with the aim of building capacity in Member States to deal with remediation and decommissioning progress by providing a series of articulated training events that will lead participants to acquire a more solid and integrated view of the different elements that are necessary to lead the implementation of D&ER Projects. Instead of ad-hoc training events covering a diverse set of topics, this project is innovative in the sense that it puts together a series of articulated topics that will gradually contribute to the consolidation of professionals with increased capacity to contribute to the planning, management, implementation and oversight of D&ER Projects. As D&ER is a multi-disciplinary process, a holistic approach will be pursued, and single aspects will be considered from multiple angles. This project is expected to increase progress in planning and delivery of D&ER projects by providing practical skills and enhancing the understanding of all drivers and constraints (a holistic approach) and an appreciation of the full suite of stakeholders and disciplines. This training will be imbued with a sense of realism. To this end, wide use will be made of case studies, anecdotal evidence, and personal experience. The project will entail a collaborative approach making use of innovative training mechanisms such as integrated web-based tools (e-learning and webinars) along with enhanced face-to-face training programmes and practical exercises (e.g., field measurements, developing and implementing a remedial action plan).

Scope and Nature

Planning and careful management of sampling, analysis, and monitoring can significantly bring down the costs of contaminated site investigations and remediation while improving confidence that project decisions will produce effective results.

The proposed course format will include two weeks of virtual training sessions.

The virtual training will consist of eight half-day online sessions (approximately three hours long), coupled with at-home assignments, covering theoretical concepts and practical exercises. The virtual sessions will be held each day from 14:00 to 17:00 Central European Time.

Topics covered in the course will include:

- Properties and Behaviour of Radionuclides including their fate and transport mechanisms in the environment
- Purpose of Characterization and Use of Data including compliance with Regulatory Requirements
- Radioactively Contaminated Sites and Sources of Contamination including Source Term Characterization
- Overview of Detectors and Other Equipment Used in Site Characterization – Laboratory and Field Measurement Technologies

- Characterization Methodologies and Techniques Including, Conceptual Site Model Development, Data Visualization & Modelling
- Integrating Site Characterization in Project Planning
- Case Studies

Expected Outputs

The expected outcome of this training is to have Member State participants understanding the purpose of site characterization and its objectives, and methods for defining the site characteristics and conditions that are relevant to site environmental remediation across the life cycle of the project. The training course is also expected to have participants updated with the state-of-the-art methodologies, techniques, and approaches to implement site characterization work in the scope of environmental remediation projects and also being able to have a better understanding on how to connect the obtained results with decision-making process vis-à-vis project implementation.

Participation

The training is intended for participants with diverse backgrounds and jobs, including policy makers, regulators, operators, and contractors. The expected participation of trainees from different countries, backgrounds and jobs will allow them to network, share their experience, and help one another to understand and solve problems in creative ways.

The course is open to 30 participants from potential target Member States for INT2020: Algeria, Angola, Argentina, Armenia, Azerbaijan, Bangladesh, Belarus, Brazil, Bulgaria, Chile, China, Croatia, Cuba, Czech Republic, Egypt, Estonia, Georgia, Greece, Hungary, Indonesia, Iran, Iraq, Jamaica, Jordan, Kazakhstan, Kyrgyzstan, Kuwait, Latvia, Libya, Lithuania, Malawi, Malaysia, Mexico, Moldova, Mongolia, Morocco, Mozambique, Namibia, Niger, Pakistan, Peru, Philippines, Poland, Romania, Russian Federation, Saudi Arabia, Serbia, Slovakia, Slovenia, South Africa, Tajikistan, Thailand, Tunisia, Turkmenistan, Turkey, North Macedonia, Uganda, Ukraine, United Arab Emirates, United Republic of Tanzania, Uzbekistan, Bolivarian Republic of Venezuela, Viet Nam and Zambia.

Each country is invited to nominate participants who must match the profile described in the corresponding paragraph, indicating the order of priority.

Daily attendance will be required and monitored along with submission of requested evaluations and completion of assignments in order to receive a course certificate.

Participants' Qualifications and Experience

Participants in the training events will need to have advanced competency in the course language; be currently employed with regulator, industry, university/educational program, or other organization with involvement in D&ER activities; and have a formal university education in an appropriate field (including engineering, science, law, business, and social science) or adequate level of experience in a “relevant” field.

Candidates should be working on, or eventually be involved in or responsible for, projects requiring remediation or clean-up of environmental contamination.

Preference for participation will be given to those candidates that have already successfully participated in the previous training modules of INT2020. These include EVT1906982, Training Course on Policy, Strategy, and Regulation of Decommissioning and Environmental Remediation Projects and EVT1906985, Training Course on Project Planning and Management for Decommissioning and Environmental Remediation Projects.

Additional Requirements

Applicants will need to successfully complete designated eLearning module(s) in order to be considered for acceptance into the course. Completion of these modules will be verified via the IAEA Learning Management System (CLP4NET). The required eLearning modules include:

- Environmental Remediation Process (ER.2, NE Department curriculum on RWM, Decommissioning, and Environmental Remediation)
- In situ techniques for radiological characterization of sites (ENVIRONET In Situ Working Group)

Individuals accepted into the course will be required to participate in a webinar held in advance of the training course. The webinar will orient participants to the course, facilitate introductions, and establish a pre-course assignment to be completed before the start of the virtual training session.

Application Procedure

Successful applicants to the prior INT2020 events will be invited to attend this training

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 (**EVT2102574**) 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.

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 who indicate their need, will receive financial support to contribute to the expenses of their costs for internet connection for the duration of the event in line with IAEA rules and procedures.

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):

Mr Dirgantara Ginanjar
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: D.ginanjar@iaea.org