Introduction to the IAEA School on Nuclear and Radiological Leadership for Safety

28 July 2022

Maria J. Moracho Ramirez, Programme and Strategy Coordination Section
Department of Nuclear Safety and Security, IAEA
Agenda

- Background
- Objective
- School concept
- Methodology
- E-support
- Implementation of Schools 2017 – 2020
- E-support and virtual programme
- Future plans
- Contact
School on Leadership for Safety

Objective

training and supporting early- to mid-career professionals in developing their safety leadership skills and potential
What is the School’s concept?

**Audience:** Leadership for future leaders, young/junior professionals and mid-range

**Multiple Perspectives:** nuclear and radiological safety, (security), normal operation and in emergencies, operator, user and regulator perspective

**Experiential Learning:** based on real scenarios studied through practical cases, role play, root cause, prevention dialogues, reflection exercises, “games”
Methodology

- experiential learning
- case studies
- group dynamics
- role play
- lectures
School concept and case studies

So far, we have **6 Case Studies** focusing on:

- Medical Applications
- Nuclear Power Plants operation
- Emergency Preparedness and Response
- Development of the Legislative Framework for Safety
- Establishment of a Regulatory Body
- Nuclear Security
Leadership School in numbers

- 9 Schools in person
- 2 Virtual Schools
- 276 Participants
- 75 Nationalities
Implementation of Schools 2017 - 2022

Regional two-week Schools
• Regional Europe (France) in 2017
• Regional Latin America (Mexico) in 2018
• Regional Europe (Turkey) in 2019
• Regional School Africa (Morocco) in 2019
• Regional School Asia (Japan) in 2020
• Pilot Virtual School (IAEA) in 2021
• Regional School Europe (Greece) in 2021
• Regional School Asia (Japan-Vienna) – virtual format - 2022

National one-week Schools
• National School in India in 2018
• National School in Pakistan in 2019
• National School in Brazil in 2019
Participants’ profile

Work experience

5-15 years

Professional background

- regulatory bodies
- technical support organizations
- operators/users

Gender

- Female: 32%
- Male: 68%

Average age

37 years
General Reflection Survey 2020

90% - training increased their knowledge of leadership for safety, and they used it at work

84% - Leadership School increased their understanding and awareness of the IAEA safety standards as well as their ability to apply them in real life situations

84% - Leadership School increased their international perspective and that they have kept in touch with fellow participants and facilitators

97% - would welcome further courses and digital learning support

Over 30% - have been promoted to a more senior position or advanced onto higher education studies since participating in the Leadership School
E-support

- A platform for the Leadership
- A dedicated space for each school is created
  - General information and reference material for the upcoming school
  - Community Forum for registered users – specifically participants and teachers, where they can chat and share experience
  - Facilitators only collaboration space, including teaching materials and notes
  - Access to eLearning walkthroughs of the case studies
  - Assessment tools and questionnaires designed to assess the school and its impact
Plans

- Train-the-trainers programme – increasing of the poll of expert facilitators
- Further e-Learning development
  - Videos and e-Learning modules
- Refresher course
- Further Alumni engagement
- Translation of the material to French and Spanish
- Syllabus publication – almost achieved
**Mid- long-Term Future**

Partnership, Learning, Sustainability

- **Incorporating lessons** and knowledge from the Agency
- **Regional network of training centres** that provide the School in cooperation with the Agency
- **Link to other Agency programmes** TC, (NE- Lead Project)
- **Link to Training Providers** in Member States
- **Link to capacity building programmes** of Member States
- **Link to relevant research and university programmes** in Member States
- **Knowledge transfer between countries** of the region and interregional
Mid- long Term Future

• Link to capacity building programmes of Member States
• Link to relevant research and university programmes in Member States
• Knowledge transfer between countries of the region and interregional
Upcoming Leadership Schools

2022
Regional Leadership School in Egypt – 9-20 October
Regional Leadership School in Mexico – 14-25 November
National Leadership School in Pakistan – 5-9 December

2023
Regional Leadership School Japan – 20 February-3 March
Regional Leadership School for FNRBA countries in Vienna – 15-26 May
Regional Leadership School in Nice – 12-23 June
Contact


The International School on Nuclear and Radiological Leadership for Safety is a training course that supports governments in their work to foster leadership for safety and safety culture by helping early to mid-career professionals to develop their safety leadership potential. It does this through improving their understanding of what leadership means in practice in nuclear and radiological working environments with their inherent complexities and often competing considerations.

Curriculum

The Leadership School's curriculum is based on the IAEA safety standards, it contributes to global nuclear and radiological safety by strengthening capacity-building efforts.

The Leadership School examines safety leadership in both normal and emergency scenarios, and it includes an element of nuclear security. Its programme is based on case studies, with participants analysing and interacting in scenarios that involve topics such as uncontrolled medical exposure, a nuclear power plant outage, and leaks of radioactive materials.

The program also includes presentations, briefings, interactive activities, individual study, in-class group work, and discussions.

Key facts: the Leadership School...
THANK YOU FOR YOUR ATTENTION