

WINS Academy Training Course on Integrated Nuclear Safety and Security Culture

1. General Introduction

Nuclear safety and security have common goals which are to protect people, property and the environment from the harmful effects of ionising radiation. For many years, nuclear facility managers have integrated the different elements of safety, such as radiation protection, fire and environmental safety. This has proved successful as measured by the World Association of Nuclear Operators (WANO), which conducts peer reviews for every operating nuclear power plant to assess the effectiveness of operations and safety. However, the interface with security has not achieved the same level of integration.

On one hand, the global nuclear safety regime is made up of a complex web of relationships that serve to enhance safety. The safety regime is founded on a variety of international legal instruments, including conventions and codes of conduct and safety standards provided by WANO and the International Atomic Energy Agency (IAEA), supplemented by support programmes and a global network of experts.

Nuclear security at the international level, on the other hand, is not as mature. It comprises international legal instruments, including conventions and codes of conduct and the IAEA Nuclear Security Series publications, supplemented by IAEA security services and additional guidance and support from organisations such as WINS. IAEA nuclear security guidance is less comprehensive and less mature than its counterpart safety standards.

At the facility level, this disparity between the maturity of safety and security can result in friction and a lack of staff participation in security improvement initiatives. The effective implementation of an insider threat programme, for example, may be compromised if security and nuclear safety-related services do not work closely together. In addition, while staff having responsibility for nuclear safety will be familiar with the details of a severe accident for their facility, they will be less familiar with the security-focused design basis threat (DBT). Likewise, security professionals will most likely be unfamiliar with the details of the severe accident analysis. Closer integration is designed to close the knowledge gap on both sides.

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In this regards, Amity Institute of Nuclear Science and Technology (AINST), Amity University Uttar Pradesh, Noida, India; Oak Ridge National Laboratory USA and World Institute of Nuclear Security (WINS) Academy, Vienna, Austria jointly organizing “WINS Academy Training Course on Integrated Nuclear Safety and Security Culture”. The workshop covered lectures on technical, regulatory and policy aspects of nuclear security.

Objective(s) of the Event (Point-wise)

- The purpose of the training course is to help participants better understand the interfaces between safety and security at nuclear facilities and to learn how to optimize the relationship, using their knowledge, skills and professionalism as scientists, technicians and engineers.
- The training will help to develop a cohort of professionals with the knowledge, skills and competence to improve the integration and effectiveness of nuclear safety and security across India.
- Participants will be encouraged to enrol in the WINS Academy through the WINS Academy scholarship fund so that they can commence study of the Foundation Module and the Elective for Scientists, Technicians and Engineers. Participants will be encouraged to take their WINS Academy programme examination to attain the status of Certified Nuclear Security Professional (CNSP) and join the WINS Alumni network.

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2. Envisaged Vs Achieved Outcomes

Sn	Envisaged Outcome	Is the outcome tangible or intangible?*	Achieved Outcome	Remarks, if any
1	The event constituted a good opportunity to foster the networking among academicians and the sharing of knowledge on nuclear security	Tangible	Many possibilities for collaboration in the field of nuclear science and technology including nuclear security	
2	The workshop met its objectives in promoting awareness on nuclear security.	Tangible	Now participants have better understanding of nuclear security and security culture	
3	Participants were encouraged to enroll in the WINS Academy through the WINS Academy scholarship fund and have commenced their study of the WINS Academy Foundation Module and the Elective Module for STEs prior to the training course	Tangible	20-25 participants will be enrolled for WINS Academy through WINS Academy scholarship fund	

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3. Actionable Progressive Outcomes

Outcomes requiring prolonged monitoring are as under:

Sn	Envisaged Outcome (a)	Outcome activity yet to be achieved (b)	Is the outcome tangible or intangible?*	Action plan to achieve the Outcome activity described in column “(b)” (c)	Target Date (d)	Responsibility (e)	Remarks, if any (f)
	Participants were encouraged to enroll in the WINS Academy through the WINS Academy scholarship fund and have commenced their study of the WINS Academy Foundation Module and the Elective Module for STEs prior to the training course	20-25 participants will be enrolled for WINS Academy through WINS Academy scholarship fund	Tangible	Soon Webinar will be conducted by WINS academy for the participants	By next moths	WINS Academy & AINST	

4. Establishing linkages or possibilities of collaboration with other Organization(s)/ Participants and their strengths.

1. ORNL, USA
2. National Institute of Advanced Studies, Bengaluru
3. Centre for Air Power Studies (CAPS), New Delhi
4. BARC, Mumbai
5. IIT Mumbai
6. Anna University, Chennai

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Amity Institute of Nuclear Science and Technology, Amity University, Noida

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