



2021 ICTP-IAEA International School on Nuclear Security

Virtual Event

12 - 23 April 2021

Programme

Week 1- Monday, 12 April 2021

10:00 – 10:15	Opening Remarks Ms Elena Buglova, Director NSNS, IAEA Mr Atish Dabholkar, Director, ICTP Mr Sergio Monti, Permanent Mission of Italy to the International Organizations in Vienna
10:15 – 10:30	Overview of School Curriculum Ms Oum Keltoum Hakam, Scientific Secretary of the School, IAEA
10:30 – 10:45	Introduction to the IAEA Ms Oum Keltoum Hakam, IAEA, NSNS
10:45 – 11:15	Nuclear Applications Mr Claudio Tuniz, Local Director, ICTP
11:15 – 11:30	Break
11:30 – 12:00	Nuclear Security Overview: Key Concepts Ms Oum Keltoum Hakam, IAEA, NSNS
12:00 – 12:30	Legal Framework for Nuclear Security Mr Jonathan Herbach, IAEA, OLA
12:30 - 13:00	Developing legislation for nuclear security Mr Jonathan Herbach, IAEA, OLA

13:00 - 13:15	Break
13:15 - 13:45	Threat Assessment (TA) and Design Basis Threats (DBT) Mr Hyungmin SEO, IAEA, NSNS
13:45 – 14:15	Exercise on TA and DBT Mr Hyungmin SEO, IAEA, NSNS
14:15 – 14:30	Questions and Summary

Week 1 – Tuesday, 13 April 2021

10:00 – 10:45	Nuclear Security Regime: Objectives and Essential Elements Ms Marina Labyntseva, IAEA, NSNS
10:45 – 11:30	Physical Protection of Nuclear Material and Nuclear Facilities (NSS No.13 (INFCIRC/225/Rev. 5)), Mr Garl Bultz, IAEA, NSNS Mr Riyaz Natha, Sandia National laboratory
11:30 – 11:45	Exercise: Physical Protection of Nuclear Material and Nuclear Facilities (NSS No.13 (INFCIRC/225/Rev. 5)), Mr Garl Bultz, IAEA, NSNS Mr Riyaz Natha, Sandia National laboratory
11:45 – 12:15	Introduction to Physical Protection System, Design and Evaluation Mr Garl Bultz, IAEA, NSNS Mr Riyaz Natha, Sandia National laboratory
12:15 – 12:30	Break
12:30 – 13:00	Defining the Requirements for Physical Protection (Facility Characterization and Target Identification) Mr Garl Bultz, IAEA, NSNS Mr Riyaz Natha, Sandia National laboratory
13:00 – 13:15	Exercise: Defining the Requirements for Physical Protection/Hypo. Facility Mr Garl Bultz, IAEA, NSNS Mr Riyaz Natha, Sandia National laboratory
13:15 – 13:30	Break

13:30 – 14:00	Physical Protection System Design (Detection, Delay and Response) Mr Garl Bultz, IAEA, NSNS Mr Riyaz Natha, Sandia National laboratory
14:00 – 14:15	Exercise: Physical Protection System (PPS) Design Mr Garl Bultz, IAEA, NSNS Mr Riyaz Natha, Sandia National laboratory
14:15 – 14:30	Questions and summary

Week 1 – Wednesday, 14 April 2021

10:00 – 10:30	Insider threat Mr Robert Larsen, IAEA, NSNS
10:30 – 11:00	Introduction to Nuclear Material Accounting and Control (NMAC) Mr Robert Larsen, IAEA, NSNS
11:00 – 11:15	Questions and summary
11:15 – 11:30	Break
11:30 – 12:00	Nuclear Material Accounting Mr Robert Larsen, IAEA, NSNS
12:00 – 12:15	Questions and summary
12:15 – 12:30	Break
12:30 – 13:15	Nuclear Materials Control Mr Robert Larsen, IAEA, NSNS
13:15 – 13:30	Questions and summary

Week 1 – Thursday, 15 April 2021

10:00 - 10:45	Security of Nuclear Sensitive Information
	Mr Trent Nelson, IAEA, NSNS
10:45 – 11:30	Information and Computer Security
	Mr Trent Nelson, IAEA, NSNS

11:30 – 11:45	Break
11:45 – 12:15	Introduction to the Security of Radioactive Material Mr Muhammad Waseem, IAEA, NSNS
12:15 – 12:45	Nuclear Security Regime for Radioactive material and Associated Facilities Mr Muhammad Waseem, IAEA, NSNS
12:45 – 13:00	Break
13:00 – 13:30	Security Measures for Radioactive Material in Use and Storage Mr Muhammad Waseem, IAEA, NSNS
13:30 – 14:00	Exercise: Categorization of Radioactive Sources Mr Muhammad Waseem, IAEA, NSNS
14:00 – 14:15	Questions and summary

Week 1 -	Friday,	, 16 Apri	l 2021
----------	---------	-----------	--------

10:00 – 10:30	Transport Safety and Interface with Security Mr Thomas Pissulla, IAEA, NSNS
10:30 – 11:00	Transport Security of Nuclear and other Radioactive Materials Mr Thomas Pissulla, IAEA, NSNS
11:00 – 11:15	Break
11:15 – 12:15	Transport Exercise Mr Thomas Pissulla, IAEA, NSNS
12:15 – 12:30	Questions and summary

Week 2 – Monday, 19 April 2021

10:00 – 10:30	Nuclear Security Culture: Concept and Definition Mr Yo Nakamura, IAEA, NSNS
10:30 – 11:00	Nuclear Security Culture: Self-Assessment Mr Yo Nakamura, IAFA, NSNS

11:00 – 11:15	Break
11:15 – 11:45	Exercise: Selection of Culture Indicators for Assessment Mr Yo Nakamura, IAEA, NSNS
11:45 – 12:15	Nuclear Security Culture: Enhancement Mr Yo Nakamura, IAEA, NSNS
12:15 – 12:30	Break
12:30 – 13:00	Overview of Nuclear Security for Nuclear and other Radioactive Materials out of Regulatory Control (MORC) Mr Thierry Pelletier, IAEA, NSNS
13:00 – 13:30	Threat Assessment and Risk Informed Approach for Nuclear and other Radioactive Material out of Regulatory Control Mr Thierry Pelletier, IAEA, NSNS
13:30 – 13:45	Break
13:45 – 14:15	Nuclear Security Detection Architecture Mr Thierry Pelletier, IAEA, NSNS
14:15 – 14:30	Questions and summary

Week 2 – Tuesday, 20 April 2021

10:00 – 10:45	Overview of Detection Instrumentation Mr Paolo Peerani, JRC/ISPRA
10:45 – 11:15	Vehicle and people control at borders (Radiation Portal Monitors) Mr Paolo Peerani, JRC/ISPRA
11:15 – 11:30	Break
11:30 – 12:00	Front Line Officer Actions Following Detection Mr Paolo Peerani, JRC/ISPRA
12:00 – 12:45	Analysis of real cases Mr Paolo Peerani, JRC/ISPRA

12:45 – 13:00	Break
13:00 – 13:30	Case Study on Bulgarian case Mr Paolo Peerani, JRC/ISPRA
13:30 – 13:45	Profile game Mr Paolo Peerani, JRC/ISPRA
13:45 – 14:00	Questions and summary

Week 2 – Wednesday, 21 April 2021

10:00 – 10:30	The Incident and Trafficking Database (ITDB) Programme Mr Jose Garcia Sainz, IAEA, NSNS
10:30 – 11:00	ITDB Global Analysis Ms Anna GREDINGER, IAEA, NSNS
11:00 – 11:15	Break
11:15 – 12:00	Nuclear Security Systems and Measures for Major Public Events Mr Nigel Tottie, IAEA, NSNS
12:00 – 12:45	Developing a National Framwork for Managing the Response to Nuclear Security Events Mr Nigel Tottie, IAEA, NSNS
12:45 – 13:00	Break
13:00 – 13:50	Response to Emergencies triggered by Nuclear Security Events Ms Muzna Assi, IAEA, IEC
13:50 – 14:50	Virtual Technical Visit Mr Nevijo Lakoseljac & Mr Matjaž Andrijašič, Port of Koper- Republic of Slovenia Mr Janez Češarek, SNSA
14:50 – 15:00	Questions & summary

Wee	k 2 – T	hursd	av.	22 /	April	2021

10:00 -11:00	Radiological Crime Scene Management Mr Peter Burton, IAEA, NSNS
11:00 – 12:00	Nuclear Forensics in support of Investigations Ms Eva Szeles, IAEA, NSNS
12:00 – 12:15	Break
12:15 – 13:15	Case Study: "An Investigation of Uranium Out of Regulatory Control"
	Ms Eva Szeles, IAEA, NSNS
13:15 – 13:30	Break
13:30 – 14:00	Continuation of Case Study
	Ms Eva Szeles, IAEA, NSNS
14:00 – 14:15	Questions and summary

Week 2 – Friday, 23 April 2021

10:00 –10:45	IAEA Programmes and Assistance for Human Resource Development in Nuclear Security Ms Marina Labyntseva, IAEA, NSNS
10:45 – 11:15	Feedback survey Ms Oum Keltoum Hakam, IAEA, NSNS
11:15– 11:30	Break
11:30– 12:00	Test Ms Oum Keltoum Hakam, IAEA, NSNS
12:00 – 12:15	Closing remarks Ms Oum Keltoum Hakam & Mr ClaudioTuniz

Acronyms:

IAEA International Atomic Energy Agency

ICTP International Centre for Theoretical Physics

NSNS Division of Nuclear Security

OLA Office of Legal Affairs

IEC Incident and Emergency Centre

JRC Joint Research Centre.

SNSA Slovenian Nuclear Safety Administration