International Atomic Energy Agency

International Training Course on the Control of Nuclear Material in Use, Movement, and Storage

COURSE AGENDA Bahadurgarh, India 10-14 September, 2018

Start	End	Topic/Module	Ву
		Monday, September 10	
1000	1030	Inaugural Session by Host Country	India
1030	1100	Presentation by Host Country on GCNEP	R.Kumar
1100	1130	Coffee Break and Class Photographs	
1130	1200	Course Overview: Opening speech- Course objective Introduction of course instructors Introduction of training participants	A. Khamzayeva
1200	1230	Introduction to the Division of Nuclear Security	A. Khamzayeva
1230	1300	Session 1: Course Introduction	M. Giorgio
1300	1400	Lunch break	
1400	1500	Session 2: Comparison- NMAC for Security and Safeguards	A. Khamzayeva
1500	1545	Session 3: Identification and Categorization of Nuclear Material	M. Darweesh
1545	1600	Coffee Break	
1600	1700	Exercise 1: Categorization of Nuclear Material	All
1700	1715	Lectures Conclude	
		Tuesday,September 11	
0945	1000	Review of the Previous Day- Quiz	A. Khamzayeva
1000	1030	Session 4: Introduction to Nuclear Material Accounting and Control (NMAC) for NS	H. Brock
1030	1045	Coffee Break	

1045	1130	Session 5: Introduction to Nuclear Material Control	A. Khamzayeva
1130	1200	Session 6: Managing the Control System for Nuclear Material	M. Darweesh
1200	1215	Case Study 1 - "Item with No Record" - Mistakes that Provided Opportunity for Unauthorized Removal of Nuclear Material	H. Brock
1215	1245	Session 7: Control of Insider Access to Nuclear Material, Equipment, and Data	A. Khamzayeva
1245	1345	Lunch Break	
1345	1445	Exercise 2: Control of Access to Nuclear Material during Emergencies	All
1445	1545	Session 8: Nuclear Material Movements	M. Giorgio
1545	1630	Presentation by Host Country	India
1630	1645	Coffee Break	
1645	1705	Case Study 2 - "Missing Fuel Rod Parts" - Mistakes that Provided Opportunity for Unauthorized Removal of Nuclear Material	H. Brock
1705	1745	Session 9: Material Containment and Surveillance	M. Darweesh
1745	1800	Lectures Conclude	
		Wednesday,September 12	
0945	1000	Review of the Previous Day- <i>Quiz</i>	A. Khamzayeva
1000	1045	Exercise 3: Nuclear Material Surveillance	All
1045	1100	Coffee Break	
1100	1145	Session 10: Tamper-Indicating Devices (TIDs)	A. Khamzayeva
1145	1215	Exercise 4: Tamper Indicating Device (TID) Selection	All
1215	1245	Case Study 3 - "Use of Unproven TIDs" - Mistakes that Provided Opportunity for Unauthorized Removal of Nuclear Material	H. Brock
1245	1330	Lunch Break	
1345	1900	Half day excursion, city tour	All

1930		Reception hosted by IAEA	All
		Thursday, September 13	
0945	1000	Review of the Previous Day- <i>Quiz</i>	A. Khamzayeva
1000	1045	Session 11: Nuclear Material Item Monitoring	M. Giorgio
1045	1100	Coffee Break	
1100	1130	Exercise 5: Item Monitoring Sample Size	All
1130	1200	Session 12: Nuclear Material ProcessMonitoring	M. Giorgio
1200	1240	Exercise 6: Process Monitoring	All
1240	1300	Case Study 4: "NMAC Discovers Leak of Radioactive Liquid at THORP, Sellafield Plant, UK" – Mistakes that Provided Opportunity for Unauthorized Removal of Nuclear Material	H. Brock
1300	1400	Lunch Break	
1400	1435	Session 13: Response to Irregularities in Nuclear Material Control	A. Khamzayeva
1435	1500	Case Study 5 - "Investigation of an Excessive MUF" - Mistakes that Provided Opportunity for Unauthorized Removal of Nuclear Material	H. Brock
1500	1530	Session 14: Evaluation of Nuclear Material Control	M. Darweesh
1530	1600	Case Study 6 – "Mistaken Shipment" - Mistakes that Provided Opportunity for Unauthorized Removal of Nuclear Material	A. Khamzayeva
1600	1615	Coffee Break	
1615	1715	Exercise 7: Performance Testing Nuclear Material Controls	All
		Friday, September 14	
0945	1000	Review of the Previous Day- Quiz	B. Khamzayeva
1000	1030	Session 15: Integration with Physical Protection Systems	M. Darweesh
1030	1100	Presentation by Host Country	India
1100	1115	Coffee Break	·
1115	12:00	Final Quiz- Review of the Course	All

12:00	13:00	Closing Ceremony- Certificates	
1300	1400	Lunch Break	
		Ajourn	

Instructors:

Assel Khamzayeva,IAEA MoustafaDarweesh, Egypt Maurice Giorgio, France Heidi Brock, US