

NUCLEAR SECURITY TRAINING CATALOGUE

INTERNATIONAL ACTIVITIES

Area II PREVENTION

1. Physical Protection of Nuclear Material and Facilities International Seminar

Duration	3 weeks
Target Audience	Nuclear Facility Operators Regulatory Bodies
Objectives	To provide a proven methodology for designing and analyzing a physical protection system to protect nuclear facilities against radiological sabotage and the theft of nuclear material.

Area III DETECTION & RESPONSE

1. Nuclear Security International Seminar

Duration	2 weeks
Target Audience	Senior officials and managers from law enforcement/intelligence community, nuclear regulatory body, facilities operations, national legislative affairs or the primary emergency response
Objectives	The seminar provides participants with an intense contemporary survey of issues and activities regarding the various aspects of nuclear security. Topics will include the international legal framework supporting nuclear security, identification of and remedies to threats against nuclear security, radiological dispersal devices, responses to incidents involving nuclear and other radioactive materials, illicit trafficking in nuclear and radioactive sources, detection and identification instruments and practical exercises designed to incorporate this knowledge into Member State planning and procedures to protect against threats to nuclear security.

REGIONAL ACTIVITIES	
Area II PREVENTION	
1. Foundations of Physical Protection of Nuclear Material and Facilities Regional Training Course	
Duration	1 week
Target Audience	Decision Makers, Nuclear Facility Operators, Regulatory Bodies, Police, Law Enforcement
Objectives	The aims of the course are: to provide owners of basic security objectives and fundamental principles with a basic understanding of physical protection as well as to demonstrate a systematic methodology to design and evaluate physical protection systems for nuclear facilities that are effective against the threat of radiological sabotage and theft of nuclear material; and to assist relevant authorities in developing and implementing the physical protection principles and requirements with reference to system engineering, state-of-the-art technology, facility analysis and coordination between the authorities in charge of nuclear security functions.
2. Physical Protection of Nuclear Material and Facilities Regional Training Course	
Duration	2 weeks
Target Audience	Nuclear Facility Operators, Regulatory Bodies
Objectives	The aims of the course are: to demonstrate a systematic methodology to design and evaluate integrated physical protection systems for nuclear facilities that are effective against the threat of radiological sabotage and theft of nuclear material; to familiarize professionals involved in the establishment of a state system of physical protection with current concepts and technology; and to assist Member States in developing and implementing their State system with reference to system engineering, state-of-the-art technology and facility analysis.
3. Practical Operation of Physical Protection Systems Regional Training Course	
Duration	2 weeks
Target Audience	Nuclear Facility Operators
Objectives	The purpose of the training course is to provide the technical staff at nuclear facilities with hands-on training, to upgrade their theoretical knowledge and to improve their practical skills in the operation of physical protection systems.

4. Physical Protection Inspections Regional Training Course	
Duration	2 weeks
Target Audience	Regulatory Bodies
Objectives	The aim of the training course is to provide the relevant staff, mainly from the national competent authorities responsible for inspections of the PPS at facilities, with a hands-on training to upgrade their theoretical knowledge and to improve their practical skills for conducting PPS inspections.
5. Physical Protection of Research Reactors Regional Training Course	
Duration	2 weeks
Target Audience	Research Reactor Operators, Regulatory Bodies
Objectives	The aims of the course are to establish more effective and efficient national and nuclear research reactor physical protection systems, improve training programs for nuclear security personnel in regional countries and to enhance management and supervision of nuclear security activities.
6. Physical Protection of Radioactive Sources Regional Training Course	
Duration	1 week
Target Audience	Regulatory Bodies & User of Sources
Objectives	Create an awareness of the need to protect and control sources and apply adequate physical protection measures to sources throughout their life cycle; Describe international recommendations, describe physical protection principles, and provide methodologies and guidelines for designing physical protection systems for radioactive sources; Provide practical experience in applying guidance and methodologies.
7. Nuclear Security Culture Regional Workshop	
Duration	3 days
Target Audience	Nuclear Facility Operators, Regulatory Bodies Police, Law Enforcement
Objectives	To provide: <ul style="list-style-type: none"> - basic concepts and elements of nuclear security culture. - a model for a healthy nuclear security culture for various types of organizations and use of radioactive material - guidance for planning and improving the nuclear security culture of an organization and - consideration on the potential impacts of regulation, government institutions and general public awareness on nuclear security culture.

9. Nuclear Material Accounting and Control at Facilities Regional Workshop	
Duration	2 weeks
Target Audience	Nuclear Facility Operators
Objectives	To provide concepts and technology - focusing on and conforming to the national obligation, that is, to account for and control nuclear material in the State and to contribute to the detection of possible losses, or unauthorized removal of nuclear material.
Area III DETECTION & RESPONSE	
1. Awareness of Illicit Trafficking in Nuclear and other Radioactive Materials Regional Seminar	
Duration	2 days
Target Audience	Decision makers in Customs, border security forces, criminal police, intelligence services and/or nuclear regulatory agencies
Objectives	<p>Increase awareness among decision makers of law enforcement, regulatory authorities and response agencies of relevant aspects of nuclear security and enhanced detection and responding capabilities at borders and other check points.</p> <p>Such awareness will include an understanding of:</p> <ul style="list-style-type: none"> a) their obligations related to combating illicit trafficking in nuclear and other radioactive materials as described in the relevant international instruments; b) the need for nuclear security infrastructure within a country; c) the need for effective mechanisms to prevent illicit trafficking in nuclear and other radioactive materials; d) the need for effective detection systems at border crossings and other 'choke' points; e) the need for effective response mechanisms, both locally and nationally, to ensure that the detection of any unauthorised nuclear and other radioactive material is responded to in such a way so as to protect people, the environment and society from the effects of nuclear terrorism, and to ensure that any evidence necessary for successful prosecution of perpetrators is properly protected; and f) the need to have a systematic process for human resource development in the area of nuclear security in order for the State to effectively combat nuclear terrorism.

2. Combating Illicit Trafficking in Nuclear and other Radioactive Materials Regional Seminar	
Duration	3.5 days
Target Audience	Decision makers in Customs, border security forces, criminal police, intelligence services and/or nuclear regulatory agencies
Objectives	<p>Provide basic awareness, knowledge and understanding of response procedures and equipment needed to combat illicit trafficking in nuclear and other radioactive materials.</p> <ul style="list-style-type: none"> - To make aware the need for front line officers to undergo extensive specific training in order to provide an effective safe response to illicit trafficking. - To give an insight into the relevant international and regional legal instruments. - To give an overview of the functionality of the equipment and instruments currently available to monitor, detect and identify nuclear and other radioactive materials. To demonstrate through practical exercises the usability of this equipment. - To give an outline to participants of the basic steps for the response to incidents involving nuclear and other radioactive materials to include the integration of the local response into an established national response plan. - To introduce the IAEA Illicit Trafficking Data Base (ITDB) - To brief participants on safety and security requirements of authorized activities involving nuclear and other radioactive materials. This will include a basic understanding of preventive measures for the security of nuclear and other radioactive materials and their locations. - To provide information on the role and responsibilities of the IAEA and on the IAEA Nuclear Security Program.
3. Advanced Detection Equipment Regional Training Course	
Duration	5 days
Target Audience	Front Line Officer, Mobile Expert Support Team
Objectives	<p>Provide an overview of radiation characteristics and safety principals. Teach the full utilization of monitoring, detection and identification instruments of different manufacturers and characteristics. Hands on and Practical exercises in simulated border environments utilizing instruments and radioactive materials to practice the correct use of detection equipment and instruments. Focus on the utilization of more sophisticated detection equipment.</p>

**4. Response to Illicit Trafficking Incidents Involving Nuclear and other Radioactive Materials
Regional Workshop**

Duration	4 days
Target Audience <i>New</i>	Senior customs and/or senior border security forces' officers, technical support organizations e.g. radiological assessors, experts in forensics evidence management
Objectives	<p>Introduce methodologies and procedures for supporting the strengthening of national infrastructure for response to illicit trafficking incidents involving nuclear and other radioactive material.</p> <ul style="list-style-type: none"> - Overview and demonstration of equipment currently available to detect, verify alarms and categorize nuclear and other radioactive material. - Methodologies for enhancing the national arrangements for incidents involving illicit trafficking of nuclear and other radioactive materials. - Overview of methods and techniques for handling incidents involving nuclear and other radioactive material including radiological assessment, preservation of evidence, nuclear forensics analysis and attribution and initiation of legal process.

NATIONAL ACTIVITIES

Area I NEEDS ASSESSMENT, ANALYSIS AND COORDINATION

**1 Implementation of INSSP
National Workshop**

Duration	2 days
Target Audience	Decision Makers from law enforcement, responders, regulatory authorities
Objectives <i>New</i>	Identification of a comprehensive set of tasks and responsibilities for the implementation of an INSSP.

Area II PREVENTION

**1. Physical Protection Against Insiders
National Workshop**

Duration	1 week
Target Audience	Nuclear Facility Operators, Regulatory Bodies
Objectives	Provide tools and methodology to protect Nuclear Material and Nuclear Facilities specific against insiders.

2. Physical Protection Against Sabotage National Workshop	
Duration	3 days
Target Audience	Nuclear Facility Operators, Regulatory Bodies
Objectives	The aim of this workshop is to enhance the awareness of the need to protect Nuclear Facilities against sabotage and to provide self-assessment guidelines for the evaluation of engineering aspects of physical protection against sabotage for nuclear facilities.
3. Vital Area Identification National Workshop	
Duration	4 days
Target Audience	Nuclear Facility Operators
Objectives	Provide methodology and general guidance to identify all candidate sets of vital areas at a nuclear facility and to provide a process for the selection of a set of vital areas that is most effective in meeting physical protection objectives for the facility.
4. Design Basis Threat National Workshop	
Duration	3 days
Target Audience	Law Enforcement, Intelligence Agencies, Defence & Civil Protection Agencies, Regulatory Bodies
Objectives	The aims of the course are: to define a step-by-step methodology to develop a Design Basis Threat, to create a framework threat assessment that can serve as a basis for the development of a DBT for the appropriate country.
Area III DETECTION & RESPONSE	
1. Radiation Detection Equipment for Front Line Officers National Workshop	
Duration	3 days
Target Audience	Front line officers
Objectives	Provide effective and relevant training to uniformed officers and other personnel subject to encountering nuclear and radioactive materials in the course of their daily and long term work responsibilities. Provide classroom lectures and practical exercises to increase the overall knowledge and awareness of issues relating to nuclear and radioactive materials, to insure the health and safety of the officers and the general public, to introduce technology and instrumentation into the work environment via practical exercises, to introduce concepts of response to incidents involving nuclear and radioactive materials. Increase the

	overall understanding of extant laws, statues and regulation regarding the importation, exportation and in-transit movements of nuclear and radioactive materials.
--	--