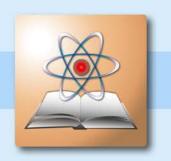


Education and Training in Radiation, Transport and Waste Safety Newsletter



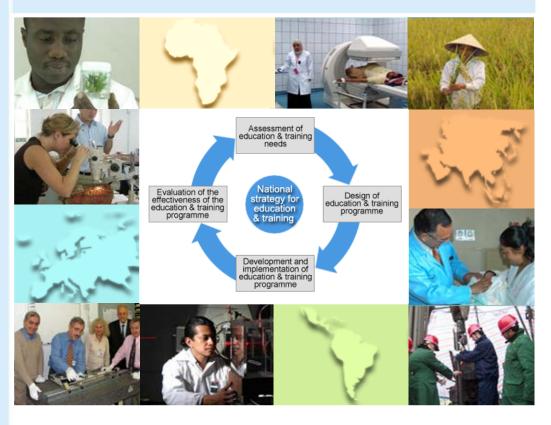
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 (2012 2013)



Focus on Regional Activities

Assisting Member States to develop National Strategies for Education and Training

IAEA's Division of Radiation, Transport and Waste Safety is assisting Member States to develop national strategies for education and training in radiation, transport and waste safety via the regional projects on "Strengthening Education and Training Infrastructure, and Building Competence in Radiation Safety" (RAF/9/04, RAS/9/066, RER/9/109 and RLA/9/070). The regional workshops conducted in 2012 in this area and the results achieved were presented in the previous issues of this newsletter focussing specifically on each region of the Technical Cooperation Programme (Africa, Asia and the Pacific, Europe and Latin America).

In the course of 2013, a new cycle of **Regional Workshops** was conducted. The workshops held in the regions of Africa, Asia and the Pacific, and Europe mainly focussed on **Sharing Experience and Progress made in establishing a National Strategy for Education and Training in Radiation, Transport and Waste Safety** (pages 2-5). The workshop held in the region of Latin America mainly focussed on **Developing and Implementing Education and Training programmes** (pages 6-7). An **overview** on the results achieved by participating Member States for the period 2012-2013 is provided on page 8.

Regional Workshops in Africa, Asia and the Pacific, and Europe

IAEA regional workshops on "Sharing Experience and Progress made in establishing a National Strategy for Education and Training in Radiation, Transport and Waste Safety" were organized for the African (in French and English), European (in Russian and English), and Asian and the Pacific (in English) regions in 2013. The workshops were supported through the Technical Cooperation projects RAF/9/048 (Africa), RAS/9/066 (Asia and the Pacific), and RER/9/109 (Europe).

Background

In 2012 workshops were held to provide Member States with a general understanding of the IAEA methodology to establish a national strategy for education and training in radiation, transport and waste safety. The methodology is based on four-interlinked phases (issue No. 1 of the newsletter), where the outcome of one phase is the starting point for the next phase: identification of the training needs; design of a national training programme; development and implementation of the national training programme; evaluation and feedback.

The 2013 workshops were aimed at monitoring advancements in this area for Member States who attended the previous workshop, and providing an overview on the methodology to other Member States.

Location, Date, Language

- Algeria, in collaboration with the Commissariat à l'énergie atomique (COMENA); 9-13 June 2013, French:
- Ghana, in collaboration with the Ghana Atomic Energy Commission (GAEC), 10-14 June 2013, English;
- Belarus, in collaboration with the International A. Sakharov Environmental University, 8-12 July 2013, Russian;
- Greece, in collaboration with the Greek Atomic Energy Commission (GAEC), 8-12 July 2013, English;
- Malaysia, in collaboration with the Malaysian Nuclear Agency, 17-20 June 2013, English.

Purpose

- To share experience and report on progress made by those Member States, who attended the previous workshops held in 2012, on establishing a national strategy for education and training in radiation, transport and waste safety;
- To provide other Member States with a general understanding of the IAEA methodology for establishing a national strategy for education and training in radiation, transport and waste safety, and to collect preliminary information for the development of national strategies, including

- regulatory framework for education and training, human resources and training infrastructures in radiation safety;
- To review initiatives taken by Member States in establishing a national strategy, pointing out the challenges faced and the solutions adopted, that could be utilized by other Member States in the region;
- To review and update the information of the radiation safety profile for education and training module (TSA6) in the Radiation Safety Information Management System (RASIMS).

Scope and Nature

The workshops were organized into plenary sessions and working groups. Experts gave presentations and reviewed the work of the breakout groups. The participants gave presentations on:

- Challenges faced, solutions adopted and actions taken to establish a national strategy;
- National regulatory framework for education and training, human resources and training infrastructures in the field of radiation safety.

Participants were asked to bring relevant information (e.g. documents related to actions taken to establish a national strategy, when applicable, national legislation and regulations for education and training in radiation protection and safety), and to contact and put together inputs from all the relevant stakeholders.

The participants were also asked to provide input, review and update information related to TSA6 in RASIMS.

The main reference documents for the workshops were:

- Governmental, Legal and Regulatory Framework for Safety, IAEA General Safety Requirements Part 1, GSR Part 1;
- Radiation Protection and Safety of Radiation Sources: International Basic Safety Standards -Interim Edition, IAEA General Safety Requirements Part 3, GSR Part 3;
- Building Competence in Radiation Protection and the Safe Use of Radiation Sources, IAEA Safety Guide, RS-G-1.4;
- Draft guidance on the IAEA methodology for establishing a national strategy for education and training in radiation, transport and waste safety.

Participants

In total 84 participants attended the workshops from 62 countries. The lecturers and facilitators were from the IAEA Regional Training Centres in the region (Algeria, Belarus, Ghana, and Morocco), IAEA Member States (Belgium, Lithuania), plus IAEA staff.

WORKSHOP IN GHANA (ENGLISH)

Workshop Facilitators

Cyril Schandorf (Ghana), Andrea Luciani (IAEA)

Botswana CHIMIDZA, Samuel Egypt ELDESOUKY, Wael Lesotho KANONO, Mathapelo Germina Mauritius OLLITE, Faradally Abdoulla Sierra Leone KONGO, Josephus Jibai Sudan MUSA, Isam Salih Mohamed Tanzania BALOBEGWA, Vitus Abel BYAMUKAMA, Abdul NAKATUDDE, Rebecca Zambia SIWILA, Boster Dearson			Participants
Lesotho KANONO, Mathapelo Germina Mauritius OLLITE, Faradally Abdoulla Sierra KONGO, Josephus Jibai Sudan MUSA, Isam Salih Mohamed Tanzania BALOBEGWA, Vitus Abel Uganda BYAMUKAMA, Abdul NAKATUDDE, Rebecca Zambia SIWILA, Boster Dearson		Botswana	CHIMIDZA, Samuel
Mauritius OLLITE, Faradally Abdoulla Sierra Leone KONGO, Josephus Jibai Sudan MUSA, Isam Salih Mohamed Tanzania BALOBEGWA, Vitus Abel BYAMUKAMA, Abdul NAKATUDDE, Rebecca Zambia SIWILA, Boster Dearson	P.A	Egypt	ELDESOUKY, Wael
Sierra Leone Sudan MUSA, Isam Salih Mohamed Tanzania BALOBEGWA, Vitus Abel Uganda BYAMUKAMA, Abdul NAKATUDDE, Rebecca Zambia SIWILA, Boster Dearson	<u> </u>	Lesotho	KANONO, Mathapelo Germina
Leone Sudan MUSA, Isam Salih Mohamed Tanzania BALOBEGWA, Vitus Abel Uganda BYAMUKAMA, Abdul NAKATUDDE, Rebecca Zambia SIWILA, Boster Dearson		Mauritius	OLLITE, Faradally Abdoulla
Tanzania BALOBEGWA, Vitus Abel Uganda BYAMUKAMA, Abdul NAKATUDDE, Rebecca Zambia SIWILA, Boster Dearson			KONGO, Josephus Jibai
Uganda BYAMUKAMA, Abdul NAKATUDDE, Rebecca Zambia SIWILA, Boster Dearson		Sudan	MUSA, Isam Salih Mohamed
Vganda NAKATUDDE, Rebecca Zambia SIWILA, Boster Dearson		Tanzania	BALOBEGWA, Vitus Abel
	6	Uganda	,
Z' 1 1 CHIDIDI I C'	*	Zambia	SIWILA, Boster Dearson
Zimbabwe CHIPURU, Justice	*	Zimbabwe	CHIPURU, Justice



Fig.1: Group photo from the workshop in Ghana.

WORKSHOP IN ALGERIA (FRENCH)

Workshop Facilitators

Abdelmajid Caoui (Morocco), Michèle Coeck (Belgium), Abdelkader Noureddine (Algeria)

	Country	Participants				
(e	Algeria	ABDENASSER, Ghezal				
X	Burundi	BARANCIRA, Thaddée				
	Benin	AYELO, Ahoumenou Paul				
*	Burkina Faso	SAM (NÉE ZANGRE), Sidnoma				
*	Cameroon	BEYALA ATEBA, Jean Félix				
	Chad	ABDRAMANE, Abba Seid OUMAR DJIME, Moussa				
	Côte d'Ivoire	MONNEHAN, Georges Alain				

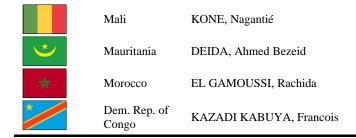




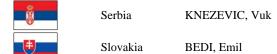
Fig.2: Group photo from the workshop in Algeria.

WORKSHOP IN GREECE (ENGLISH)

Workshop Facilitators

Panagiotis Dimitriou (Greece), Andrea Luciani (IAEA

Panagiotis Dimitriou (Greece), Andrea Luciani (IAEA)						
Participants						
	Albania	GRILLO, Bardhyl PACI, Rustem				
		I ACI, Rustelli				
	Armenia	BABAYAN, Armen				
C*	Azerbaijan	EYVAZOV, Agil GAHRAMANOVA, Matanat				
THE THE PARTY OF T	Bosnia and Herzegovina	LAGUMDZIJA, Armin				
	Bulgaria	GROZDANOV, Krassimir Assenov				
	Dulgaria	Assenov VASSILEVA, Jenia Nachkova				
	Croatia	VEINOVIC, Zelimir				
	Hungary	KOVACS, Tibor Janos				
	Kazakhstan	ABDYKHALIKOVA, Sholpan				
	Lithuania	GATELYTE, Ieva				
米	The frmr. Yug. Rep. of Macedonia	RISTOVA, Mimoza				
*	Montenegro	JOVANOVIC, Slobodan				
W W	Moldova	BAHNAREL, Ion BALAN, Ionel Haralambie				
•	Portugal	NAZARETH FALCAO, Antonio				
	Romania	PETRE, Doina TATAR, Florin Constantin				



Turkey ZEYREK, Celal Tugrul



 ${\it Fig. 3: Group \ photo \ from \ the \ workshop \ in \ Greece.}$

WORKSHOP IN BELARUS (RUSSIAN)

World or For 12 Arms					
Workshop Facilitators Andrey I. Timoshchenko (Belarus), Julius Ziliukas (Lithuania)					
	J	Participants			
	Armenia	VOSKANYAN, Karen			
C*	Azerbaijan	ASLANOV, Fikrat SHUKUROV, Vahid Elcin			
	Belarus	VASILEUSKAYA, Liudmila			
	Bulgaria	KAZAKOVA, Svetla Vladimirova SABINOVA, Vera			
* * * *	Georgia	GIORGOBIANI, Mariam			
	Kazakhstan	TOKMAGAMBETOVA, Lazzat			
©	Kyrgyzstan	DUISHENOVA, Zhyldyz KAZYBAEV, Narynbek			
	Latvia	KIZANE, Gunta			
	Lithuania	MURZIN, Aleksandr RAGNIS, Rimvydas			
\divideontimes	The frmr. Yug. Rep. of Macedonia	JONOVSKI, Jovan			
W	Moldova	MURSA, Elena HUSTIUC, Victor			
	Russian Federation	BOMBIN, Roman			
-	Serbia	CASIC, Durdija			
	Tajikistan	KHAMIDOV, Farkhod SALOMOV, Firdavs			
C.:::	Uzbekistan	KHALILOV, Anvar			



Fig.4: Photograph from the workshop in Belarus.

WORKSHOP IN MALAYSIA (ENGLISH)

Workshop Facilitators

Panagiotis Dimitriou (Greece), John Wheatley (IAEA)					
Participants					
	Bangladesh	ISLAM, M. Moinul			
Adda	Cambodia	HOM, Phaly			
★ 注	China	WANG, Liming			
	Indonesia	RINDAYANI, Kanadiato Rini			
****	Iraq	SAIHOOD, Asaad			
•	Jordan	HAMDAN, Ahmad			
(*	Malaysia	CHE NOR ANIZA, Che Zainul Bahri KADER IBRAHIM, Sabariah			
*	Myanmar	KAY THWE HTUN			
	Nepal	PANT, Shanta Devi			
米	Oman	AL AZRI, Faisal Hamed Mohammed			
C	Pakistan	REHMAN, Syed Shakeel Ur			
	Sri Lanka	DE SILVA, Uththama W. K. Haryantha			
* *	Syria	SHWEIKANI, Riad			
	Thailand	SUPARIT, Nitaya			
	UAE	MAJALI, Mustafa Moh'D			

NGUYEN, Trung Tinh

AL-SHAMI, Abdullah Ahmed

Vietnam

Yemen



Fig.5: Photograph from the workshop in Malaysia.

Workshop summary

Progress made in establishing the national strategy for education and training was presented and shared by those Member States that attended the workshops in 2012. Challenges faced and difficulties encountered were analysed, in order to identify possible solutions to be rendered to Member States. The radiation safety profile for TSA6 in RASIMS was updated or, for some Member States, drafted for the first time.

Discussions were held on how to develop a policy framework for facilitating the establishment of the national

strategy for education training. The development of a simple general template for a policy document to be submitted and endorsed by governmental authorities was considered. Challenges in the completion of the first step of the process to establish the national strategy (analysis of the education and training needs) have been discussed. Both topics have been proposed to be considered in the future workshops.

Ways for IAEA to better assist Member States were discussed. The conduction of IAEA expert missions in Member States was identified as an appropriate and effective way to get the involvement of all the concerned national stakeholders and to provide advice on how to initiate the establishment of the national strategy for education and training.

During the workshop, all the participants applied the draft IAEA guidance on how to establish a national strategy for education and training, and drafted, as an exercise, a Work Plan according to the Annex II of the guidance: they identified the relevant national stakeholders and clarified their role and duties in regard to the establishment of the national strategy; the actions expected to be completed; and the time frame. In Figure 6 the general template for the development of the Work Plan, as provided in Annex II of the IAEA draft guidance, is presented.

Stakeholders	Policy framework	Output 1: Natio	Assessment of education and training needs	Output 2: Education and training needs assessed	Design of the national E&T programme	Output 3: Schedule	Development and implementation of the national E&T programme	Output 4 : Com	Evaluation of the national E&T programme	Output 5: national education and training programme continuous to be effective and up to date
Government	\overline{ullet}	nal strategy	$\overline{\checkmark}$	ition and tra			\checkmark	petence buil		nal educatio
Regulatory body	\checkmark	for education	\checkmark	ining needs		ities to mee	\checkmark	t in support		n and traini
Professional organizations		on and trair	\checkmark	assessed		t the educa	\checkmark	of national		ng program
Technical supporting organizations, Service providers	~	National strategy for education and training established	\			of activities to meet the education and training needs		Competence built in support of national radiation, transport and waste infrastructures		ıme continuous
Education and training providers	\checkmark	_	\overline{igstar}		lacksquare	ng needs	\checkmark	sport and wa		to be effecti
High-Level Steering Committee			~		\checkmark		\checkmark	ste infrastruct	\checkmark	ve and up to d
Technical Working Groups	\checkmark		\checkmark		\checkmark		\overline{V}	ures	\checkmark	ate

Fig.6: Work Plan to establish a national strategy for education and training in radiation, transport and waste safety: relevant stakeholders and their involvement in each step of the process to establish the national strategy.

Regional Workshop in Latin America

The IAEA regional workshop on "Developing and Implementing Education and Training programmes" was organized for the Latin-American region (in Spanish) in 2013. The workshop was supported through the Technical Cooperation project **RLA/9/070**.

Background

Member States in the Latin-American region already started working on the establishment of the national strategy for education and training in the previous cycle of the Technical Cooperation programme. Therefore, the format and scope of the workshops held in Latin America were different from those organized in the other regions.

In 2012 a workshop was held in Bolivia to familiarize Member States with the first step in the process to establish a national strategy for education and training in radiation, transport and waste safety, i.e. the analysis of the education and training needs.

The 2013 workshop was aimed at continuing the exercise of application of the IAEA draft guidance for the establishment of a national strategy for education and training in radiation, transport and waste safety: development of a policy; completion of the second and third step in the process for the establishment of the national strategy (i.e. design, and development and implementation of the national education and training programme), (Figure 7).

Location, Date, Language

 Cuba, in collaboration with the Centro de Protección e Higiene de las Radiaciones (CPHR), 8-12 July 2013, Spanish.

Purpose

• To analyse the national context in which a national education and training program in radiation protection has to be developed;

- To identify the relevant elements in the preparation of the national education and training program;
- To practice with the design and development of the national education and training program;
- To identify indicators to assess the effectiveness of national education and training programs.
- To review and update the information of the radiation safety profile for education and training module (TSA6) in the Radiation Safety Information Management System (RASIMS).

Scope and Nature

The workshop was organized into plenary sessions and working groups. Experts gave presentations and reviewed the work of the breakout groups. The participants gave presentations on status of the establishment of the National Strategy for education and training in radiation, transport and waste safety. The participants were asked:

- To prepare a draft template of a policy document providing the general framework for the establishment of the national strategy for education and training in radiation, transport and waste safety;
- To learn from the experience of Member States that already completed some steps in the process for establishing a national strategy;
- To design the national education and training programme for a country case-study (second step of the process);
- To develop and implement the national education and training programme for a country case-study (third step of the process).

The participants were also expected to provide input to update information related to TSA6 in RASIMS.

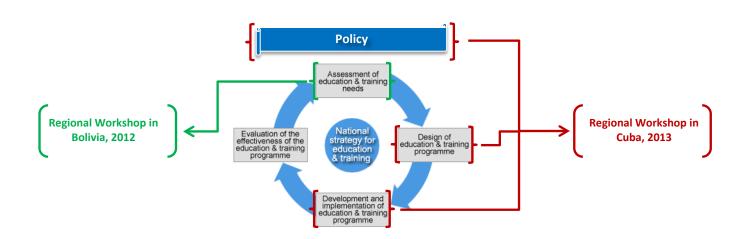


Fig. 7: Tasks completed during the regional workshop held in Cuba in 2013 (as continuation of the regional workshop held in Bolivia in 2012).

The main reference documents for the workshops were:

- Governmental, Legal and Regulatory Framework for Safety, IAEA General Safety Requirements Part 1, GSR Part 1;
- Radiation Protection and Safety of Radiation Sources: International Basic Safety Standards -Interim Edition, IAEA General Safety Requirements Part 3, GSR Part 3;
- Building Competence in Radiation Protection and the Safe Use of Radiation Sources, IAEA Safety Guide, RS-G-1.4;
- Draft guidance on the IAEA methodology for establishing a national strategy for education and training in radiation, transport and waste safety.

Participants

In total 16 participants attended the workshops from 12 countries.

WORKSHOP IN CUBA (SPANISH)

Workshop Facilitator						
	Ronald Enrique Pacheco Jimenez (IAEA)					
		Participants				
(3)	Bolivia	MIRANDA CUADROS, Alberto				
(W)	Donvia	Augusto				
	Brazil	ROCHA FERREIRA, Paulo Roberto				
*	Chile	VILLALOBOS PINO, Belgica				
•	Costa Rica	MADRIGAL DIAZ, Carlos Manuel				
>	Cuba	CÁRDENAS HERRERA, Juan GUILLEN CAMPOS, Alba HERNÁNDEZ SAIZ, Alejandro RODRIGUEZ RODRIGUEZ, Maidelys Rosa TOMÁS ZEROUERA, Juan				
@	Dominican Republic	FERREIRA CAPELLÁN, José Miguel				
T	Ecuador	VILLALBA BARRERA, Fernando Patricio				
•	Mexico	JIMÉNEZ ROJAS, Mardonio				
0	Paraguay	VILLANUEVA DE DÍAZ, Zulma Stella				
@	Peru	MEDINA FLORES, Edgard Edilfio				
*	Uruguay	CABRAL MOLINA, Walter Sergio				
9	Venezuela	GIRÓN SÁNCHEZ, Carmen Matilde				

Workshop summary

Progress made in establishing the national strategy for education and training were presented and shared by those Member States that attended the workshops in 2012. On the basis of the analysis of the education and training needs carried out in 2012, the participants designed the national education and training programme, following the methodology provided in the IAEA draft guidance for the establishment of the national strategy for

education and training in radiation, transport and waste safety.

NATIONAL EDUCATION AND TRAINING PROGRAMME The schedule of activities to be delivered over a specified timeframe in order to meet the identified education and training needs.

Considering the information collected in preparation of the workshop, about the available national capabilities for a specific country taken as case-study (in terms of the physical infrastructures and human resources), the participants proceeded with the development and implementation of the national education and training programme.

The Work Plans drafted during the workshop held in Bolivia in 2012 (similarly to the work completed during the workshops in the other regions in 2013) were updated. Performance indicators were also discussed and agreed to monitor the completion of each action within the Work Plan.

Finally, the radiation safety profiles for TSA6 were updated using a template developed in word, to be successively uploaded in RASIMS.



Fig.8: Group photo from the workshop in Cuba.



Fig.9: Participants working in group during the workshop in Cuba.

Overview of achievements (2012 – 2013)

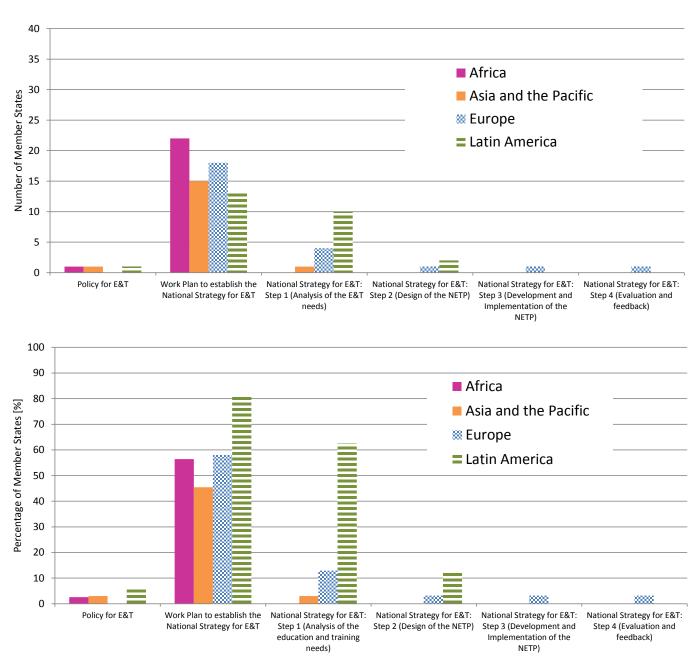


Fig.10: Number (on the top) and percentage (on the bottom) of Member States in each region, that drafted documents (policy, work plans) and completed the steps to establish a National Strategy for E&T in radiation, transport and waste safety (E&T: education and training; NETP: national education and training programme).

Impressum

Education and Training in Radiation, Transport and Waste Safety Newsletter No. 5

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