

Asian Nuclear Safety Network Education and Training Topical Group
Regional Workshop on the Management of Training Systems for Nuclear and Radiological
Safety

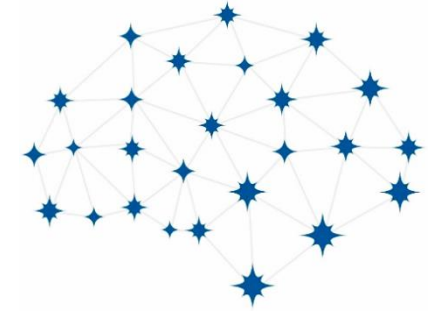
6-10 November 2023

PNRI, Manila, Philippines



Kazakhstan

Akerke Tossekbay



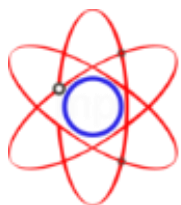
**NATIONAL
CENTRE FOR
NEUROSURGERY**

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National strategy on education and training in nuclear and radiation safety

- **Concept and vision**
- **Objectives, scope and main elements**
- **Ministry of Education, Healthcare and Energy, Committee of atomic and energy supervision and control**
- **A number of major interdisciplinary events are being held, such as conferences, national projects and IAEA visits**



INSTITUTE
OF NUCLEAR
PHYSICS



NUCLEAR TECHNOLOGY SAFETY CENTER
НАУЧНО-ТЕХНИЧЕСКИЙ ЦЕНТР
БЕЗОПАСНОСТИ ЯДЕРНЫХ ТЕХНОЛОГИЙ

Systematic approach to training

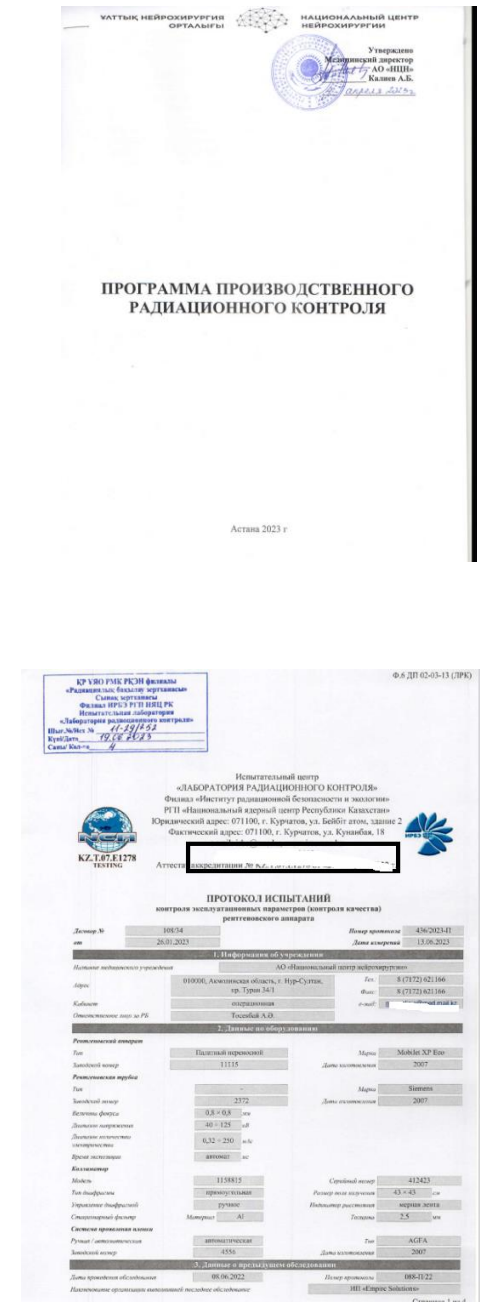
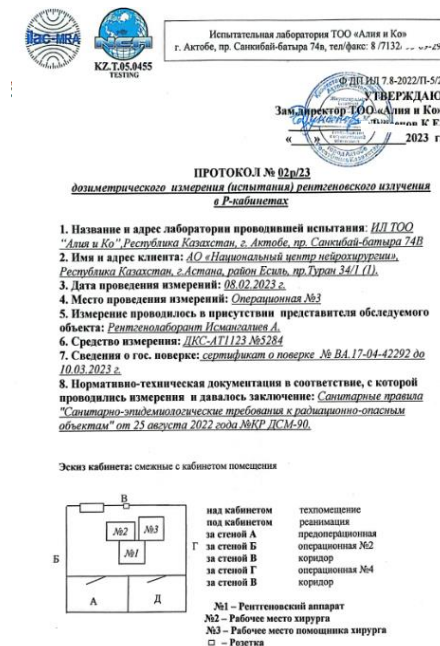
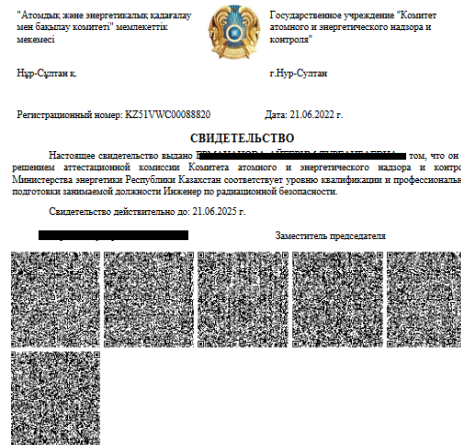


In our organization
it is planned to implement
training of personnel
in compliance with
IAEA Nuclear Energy
Series No. NG-T-2.8

Assessment of competence needs

The methodology, tools, and instruments for assessing and managing competencies in the field of radiation safety within our organization may encompass the following components:

- **Competency assessment.**
- **Utilization of accredited entities.**
- **Knowledge testing.**
- **Knowledge management system.**





Приказ Министерства здравоохранения Республики Казахстан от 15 декабря 2020 года № ҚР ДСМ-275/2020: Об утверждении Санитарных правил «Санитарно-эпидемиологические требования к обеспечению радиационной безопасности» Приложение 13	Қазақстан Республикасы Денсаулық сақтау министрінің 2020 жылғы 15 желтоқсандағы № ҚР ДСМ-275/2020 бұйрығы: «Радиациялық қауіпсіздікті қамтамасыз етуге қойылатын санитариялық-эпидемиологиялық талаптар» санитариялық қағидалары бекіту туралы 13-қосымша
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Отделение радиологии и радиохирургии

Радиология жэ не радиохирургия бэлэмшесі

Сп уелену кезімен жұмыс істейтін адамдардың жеке сп уелену дозаларын есепке алу карточкасы

Карточка учета индивидуальных доз облучения лиц, работающих с источниками излучения

Т.А.Ж. Ф.И.О. ЖСН/ИНН	
ИСК жұмыс істеген мерзімі Период работы с ИИИ:	
Ұйымының толық атауы жэ не мекемесі: Полное название и адрес организации:	«Ұлттық нейрохирургия орталығы» Акционерлік қоғамы Астана қаласы, Тұран даңғылы 34/1 Акционерное общество «Национальный центр нейрохирургии» город Астана, Проспект Туран 34/1

Сп уелену параметрі Параметр облучения	Өлшем бірлігі Единица измерения	ИСК жұмыс істеу кезеңі За весь период работы с ИИИ
Тирмш доза, Е Эффективная доза, Е		
Көзбұрыштың эквиваленттік доза, Н _в (3)		
Эквивалентная доза в хрусталике глаза, Н _з (3)		
Аяқ-қолдың эквиваленттік доза, Н _д (0,07)		
Эквивалентная доза на конечностях Н _д (0,07)		
_____ж. бастап бақыланады		
Контроль проводится с _____ г.		

Радиациялық қауіпсіздік инженері
Инженер по радиационной безопасности _____



Training management

- Management of training at our organization
 - The employee training management system is reflected primarily in the principles of recruitment and personnel policy.
 - Materials used for employee training are continuously updated and compared with the latest research and IAEA recommendations.
 - Basic dosimetry, Individual dose control, Shielding, Recovery
 - The hospital has an extensive database available to all employees of the institution.
 - Updated when necessary
 - Training packages are available for all participants of the training program

Challenges in education and training

At national level

- CQMP in Diagnostic/Therapy Radiology

At organizational level

- lack of time among surgeons

Networking and sharing in E&T

- Mechanisms for facilitating networking and data exchange among organizations involved in the use of ionizing radiation exist at multiple levels, including the activities of professional associations, regulatory bodies, and individual specialists. Moreover, Ministry of Healthcare systematically organizes number of Conferences and Workshops.
- IT means for networking include digital platforms like online learning systems, webinars, and websites, enabling collaboration among stakeholders for knowledge sharing and skills development.
- Languages of training packages are Kazakh, Russian and English.

Future plans in education and training

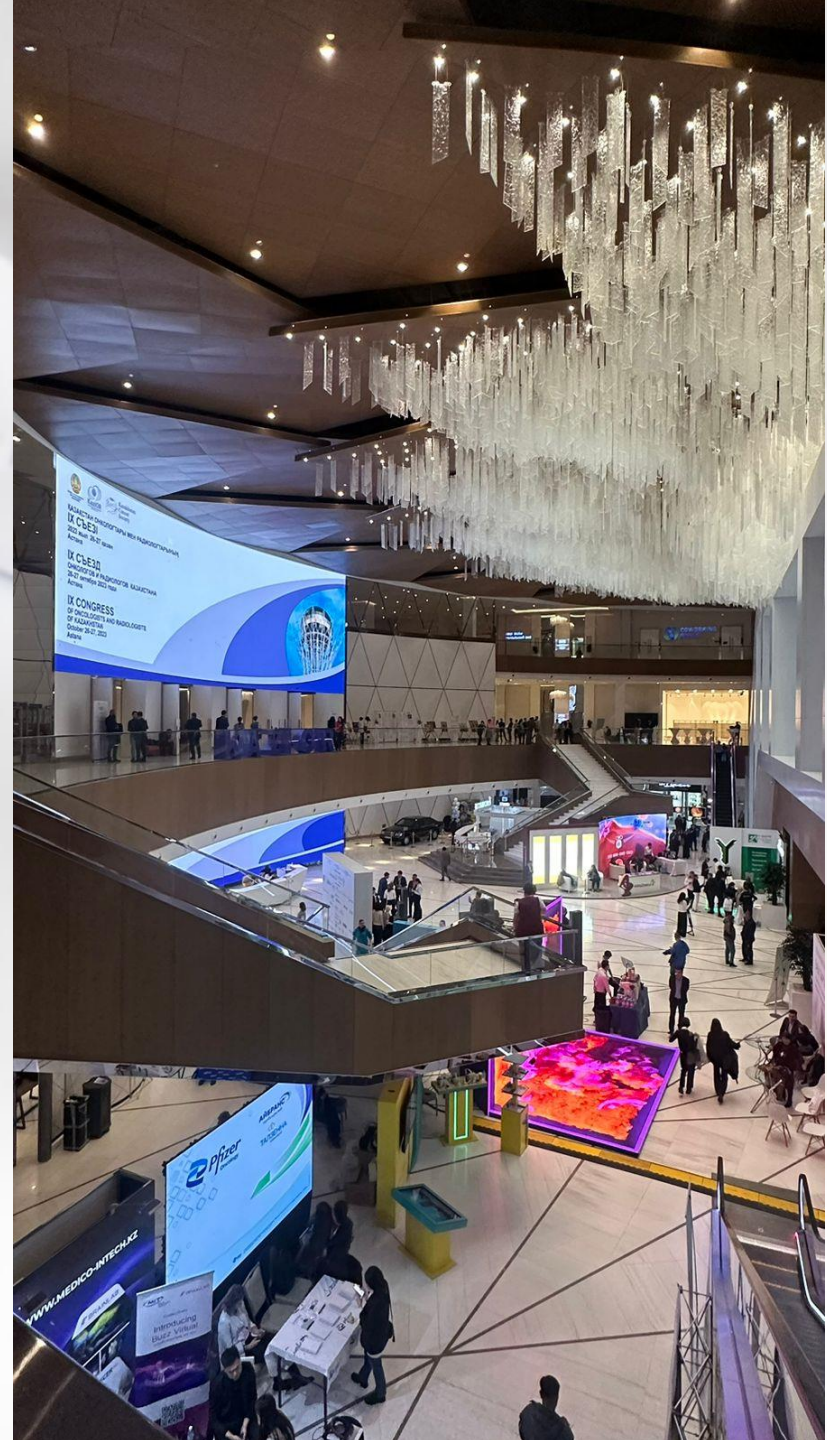
- At national level

In the immediate future, the Republic intends to formulate and implement supplementary courses, such as those tailored for technicians, with the aim of providing more comprehensive education in radiation safety for prospective professionals.

- At organizational level

Development and implementation of comprehensive written and oral testing on radiation safety

7 November 2023



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Thank you!