



SPC DOZA

EDUCATIONAL ACTIVITIES

EDUCATION | PRACTICAL TRAINING | PROFESSIONALISM

STAFF TRAINING



The products of SPC Doza are technically sophisticated, therefore their maintenance quality during operation plays an important role. The company devotes much attention to training people who operate the equipment, preparing detailed manuals for them, developing measurement techniques and interactive supporting.

The specialists of engineering support department of SPC Doza provide on-site training of the customers' staff to work with radiation monitoring devices and systems. This training includes a demonstration of installed equipment and its features, as well as detailed instructions for operating procedures. In addition, video course for work with the equipment is provided.

SPC Doza provides engineering and methodological support for working with the equipment during the entire period of its operation.

TRAINING AND METHODOLOGICAL CENTRE “SAFETY AND CONTROL”

On the basis of SPC Doza there is a Training and Methodological Center (TMC) “Safety and Control”. Thanks to TMC involving and up-to-date programs, its training events are the most visited and reputable in the RF in the field of radiation monitoring and safety over the last 25 years.

The center provides training in two approved additional professional programs “Radiation safety and radiation monitoring”, as follows:

- **Professional retraining program** aimed at obtaining the competence necessary to perform a new type of professional activity. After training, the students receive a diploma of professional retraining and they are awarded a new qualification, which gives a right to engage in professional activities in the field of radiation monitoring in accordance with the scope of accreditation or in accordance with the position held.

- **Professional competence development program** allows employees of enterprises, organizations and institutions to gain relevant knowledge and skills in the field of radiation monitoring and safety. Such training is to take place once every 3-5 years and is for employees whose activities are directly



related to ionizing radiation sources, directors and specialists of enterprises and facilities using nuclear energy, officers responsible for radiation safety, heads of organizations working with radioactive sources and nuclear installations and employees directly involved in radiation factor measuring and radiation monitoring. After completing the training the students are granted a certificate of professional competence development.

Training under both programs takes place in a full-time and a part-time format. Full-time training can be taken by attending either in-class lecture courses or on-line webinars connecting to Virtual Conference Room. All students can ask questions of interest to the teacher and receive answers.

TMC curricula is so unique and efficient because the lectures and practical sessions are conducted directly by the developers of radiation monitoring devices.

All curricula are based on a profound theoretical foundation and many-year practical experience.

In addition to academic knowledge in the field of radiation monitoring and safety, these courses are aimed at analyzing specific practical examples, real cases faced by the specialists at certain enterprises, as well as possible problems and solutions to them. Lecture material is updated in accordance with changes in the regulatory base, when new techniques and developments come out. Thus, within the framework of one training program the students receive the most up-to-date information at first hand.



TRAINING AND DEMONSTRATION CENTRE FOR NUCLEAR AND RADIATION SAFETY

The Training and Demonstration Center Doza for nuclear and radiation safety (TDC Doza) opened in April 2018 is a special training cluster of Obninsk Institute for Nuclear Power Engineering/OINPE NRNU MEPhI, which was created as a result of the industrial partnership between NRNU MEPhI and SPC Doza, a leading Russian manufacturer of radiation monitoring equipment.

A modern classroom equipped with radiation monitoring devices and systems, multimedia devices, measuring and information stands allows the most visual presentation of information on nuclear and radiation safety, exciting practical sessions and laboratory work.

The opening of the training and demonstration center made it possible to expand the main areas of NRNU MEPhI educational programs, including professional competence development for the employees of NPPs and NFC enterprises of Russia and foreign countries.

After completing the training program at the Centre, the participants are granted a certificate.

In the training and demonstration center Doza Russian and foreign students and specialists have an opportunity to apply their knowledge in practice on simulators and training equipment of CAAS and RMS of nuclear power plants and other radiation- and nuclear-hazardous facilities.





Training sessions for detection, localization and rapid assessment of area's radiation contamination (IRS simulator – potash fertilizers with natural r/n K-40)

Due to integration of the institute's curricula and practical scientific developments of the leading Russian manufacturer, the students not only study the building-up principles of radiation monitoring equipment, but actively take part in R&D work as well as in development of mock-ups and prototypes too. MEPhI graduate and postgraduate students in areas of "Nuclear Physics", "Automated Process Control Systems", "Instrument Engineering", "Ecology" are involved in joint research and development work that is focused on creation of radiation monitoring devices and systems for nuclear industry facilities and special services, development of methodological materials for ensuring and conducting radioecological monitoring of industrial nuclear facilities and development of application software.



NRNU MEPhI rector, OINPI NRNU MEPhI director and teaching staff as well as SPC Doza management take an active part in Training and Demonstration Center activities



Lectures and practical sessions are given with the use of software tools and multimedia devices in a specially equipped classroom.



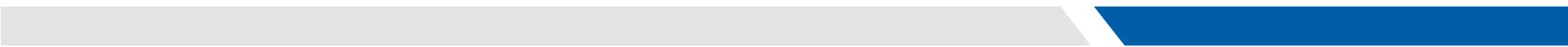
FRAMEWORK PROGRAM OF TDC DOZA AS PART OF NRNU MEPHI

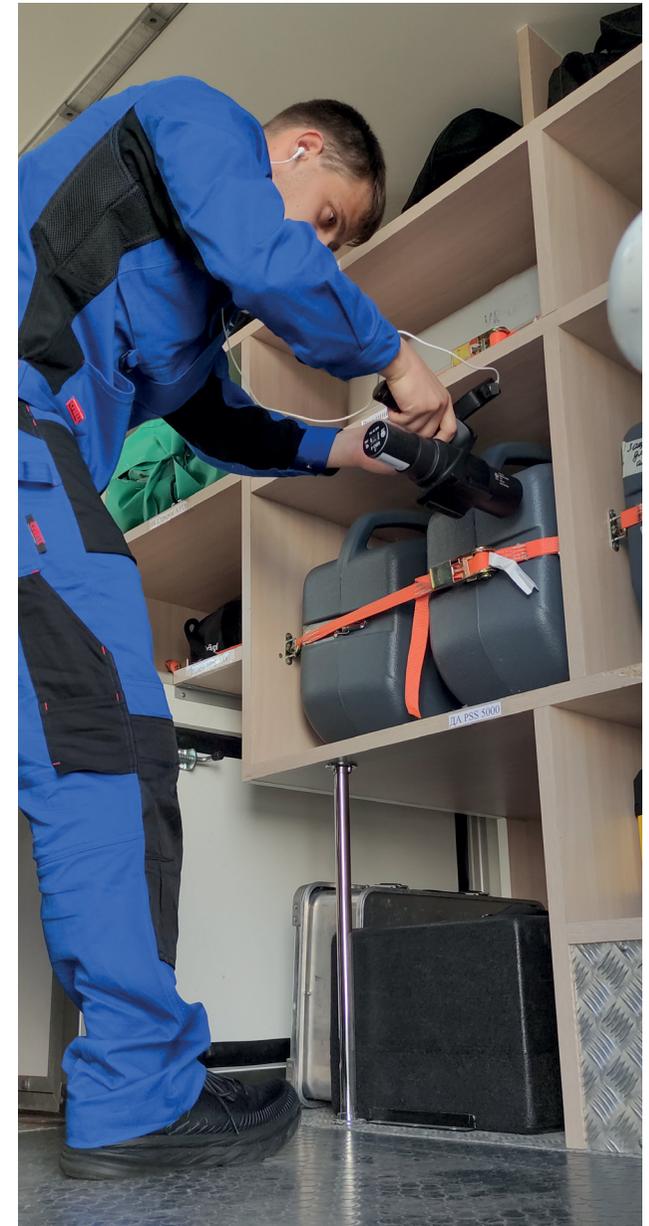
The purpose of work of TDC “Doza” is for students to form stable skills of safe work with sources of ionizing radiation, ability to determine the qualitative and quantitative characteristics of ionizing radiation with the use of modern means of radiation monitoring.

TASKS:

- to form students' knowledge about the physical and biological nature and mechanisms of action of the main radiation factors that affect humans and their environment (educational form – lectures);
- to introduce basic measurement methods of radioactivity (educational form – lectures,

seminars, laboratory work on equipment and devices of SPC Doza);

- to master the principles and norms of regulation of exposure to ionizing radiation (educational form – lectures, seminars);
 - to instill the ability to apply the acquired knowledge in further practical work aimed at minimizing the radiation effects of natural and man-made sources of ionizing radiation on the environment and humans (educational form – lectures, practical sessions).
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Methods developed and tested in TDC help to evaluate specialists at Atomskills, championship of professional skills, specialty Dosimetry

METHODOLOGICAL FEATURE OF INNOVATIVE ELECTIVE (NEW METHODS, WORK FORMS, AUTHOR'S TECHNIQUES)

- Clear, deep and easy-to-understand presentation of the lecture material under constant feedback from the audience.
- At every lecture there are basic handouts (diagrams, graphs, tables) distributed, specific literary sources recommended.
- All laboratory work has methodological descriptions, the devices used are calibrated, user manuals and passports are provided.
- Issues of radiation safety at NPPs and NFC are actively discussed.
- Available in SPC Doza fund of measurement techniques, as well as materials of the scientific and technical library and archives of ANRI journal are used.



PUBLISHING ACTIVITIES

Since 1994 SPC Doza has been publishing ANRI journal (Instrumentation and News of Radiation Measurements), ISSN: 2075-1338, that presents scientific articles, reviews, drafts of new normative documents, practical recommendations, methodological, training and discussion materials, articles about new measuring instruments. The journal is included in the Higher Attestation Commission list as one of the publications where the results of theses for degree of candidate or doctor of science should be published in. Since 2015 the journal has been included in the international reference database and citation system Chemical Abstracts. The journal is not a commercial project, all scientific articles are published free of charge. Such an editorial policy allowed the journal to become a knowledge crystallization center in a number of areas, unite the manufacturers of instruments and scientists with a variety of views. Among ANRI permanent subscribers there are enterprises of the State Corporation Rosatom, centers

of Rospotrebnadzor, radiation monitoring laboratories and others. For many professionals who deal with radiation monitoring and safety issues, ANRI is like a Bible, where you can find not only scientific articles, but also main events of this area, promptly and professionally covered.



LIBRARY SPC DOZA

The library of SPC Doza was established in 1995. During all these years it collected almost all modern literature on radiation monitoring and safety issues, from methodological and normative documentation to monographs and books. The books have been purchased in a variety of publishing houses; release of some books, handbooks and collections of methods has been organized and sponsored directly by SPC Doza. The library has a collection of books of high theoretical and practical significance, they can be useful for both students and specialists-practitioners.





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