PROBLEMS OF PROFESSIONAL COMPETENCE DEVELOPMENT OF INFORMATION SECURITY OF FUTURE MILITARY SPECIALISTS AND ITS CURRENT STATE

Akbaraliyev is the son of Shahboz Shavkatjon

Chief specialist-scientist of the Department of Military Personnel Training of the Central Apparatus of the Ministry of Defense

Rakhmatullayeva Durdona Ravshanovna

Professor of the Institute for the Development of Professional Education, Ph.D. (DSc)

В данной статье описан процесс развития профессиональной компетентности будущих военных специалистов в области информационной безопасности в целом, постоянно меняющейся системы. Структура этой системы ориентирована на содержание образования, набор организационных форм, средства взаимодействия субъектов деятельности, а также результат их совместной деятельности.

Ключевые слова

Информационная безопасность, военные силы, национальные интересы, глобализация, компетентность, военно-педагогическая, военное образование, современность.

This article describes the process of developing the professional competence of future military specialists in information security as a whole, constantly changing system. The structure of this system is focused on the content of education, the set of organizational forms, the means of interaction between the subjects of activity, as well as the result of their joint activity.

Key words

Information security, military, national interests, globalization, competence, military-pedagogical, military education, modern.

As a result of the increasing role of information resources and technologies in the development of individuals, society and the state in the 21st century, the issue of building civil society as an information society in the Republic of Uzbekistan is considered one of the urgent tasks. The information security system closely connects the state policy in the information field with the state policy of ensuring national security in the country. In this case, the information security system unites the main organizers of state policy into a single whole. This determines the role of

information security and its position in the country's national security system. The integrity of the goals that reflect the national interests of Uzbekistan in the field of information, the strategic directions of their achievement and the systems of their implementation means the state information policy. At the same time, the state information policy is the main organizer of the country's foreign and domestic policy and covers all aspects of society.

In this regard, the legal framework for the training of future military specialists has been created, including the decree of the President of the Republic of Uzbekistan "On measures to further improve the system of officer training in the field of information and communication technologies and communication". Decision of the Cabinet of Ministers of the Republic of Uzbekistan "On approval of the regulation on the selection and admission of candidates for study in higher military educational institutions of the Republic of Uzbekistan, the procedure for the expulsion and reinstatement of specialists", O Decree of the President of the Republic of Uzbekistan "On approval of the concept of the development of the higher education system of the Republic of Uzbekistan until 2030", the Minister of Defense of the Republic of Uzbekistan "Improving the training system at the Military Institute of Information, Communication Technologies and Communications of the Ministry of Defense" and the adoption of the order "On measures to increase efficiency" and other documents determine the importance of developing information security professional competence of future military specialists.

The importance of information in the life of any developed society is continuously increasing.

As a result of the increasing role of information resources and technologies of future military specialists in the development of the individual, society and the state in the 21st century, along with solving the issue of building civil society as an information society in the Republic of Uzbekistan, the following factors make information security a leading place in the national security system. defines:

- national interests, their aggression and their protection from these aggressions are expressed and implemented through the information and information sphere;

- a person and his rights, information and information systems and their ownership;

- these are not only the main objects of information security, but also the main elements of security objects in the fields of total security;

- it is possible to solve national security issues by using the information approach as the main scientific-practical method.

Today, the full implementation of information and communication technologies in the informational world, including in all areas, causes new threats to the participants of the process and the increase of factors of information influence.

As a solution to this problem, it is necessary to train information security specialists in higher military educational institutions of the Ministry of Defense of the Republic of Uzbekistan, increase their information security and professional competence, and improve their professional training.

Systematization of approaches, methods, ideas for training future military specialists in information security, development of professional competence of specialists in information security takes a leading place.

In the era of globalization, the increase in the speed of information exchange in the world, the formation of an information society has led to an increase in the role of information security in professional activities in the training of future military specialists in information security.

The process of developing the professional competence of future military specialists in information security is a holistic, constantly changing system. The structure of this system is determined by the content of education, a set of organizational forms, means of interaction between the subjects of activity, as well as the result of their joint activity.

Effectively resisting any influence on the person of a future military specialist in information security in professional activities directly related to ensuring the organization of a secure information environment, predicting possible threats, protecting information it is important to ensure that it is carried out and to properly develop the ability to prevent threats to information security.

- Also, the widespread use of digital technologies leads to an increase in the impact on the secure information environment and a higher level of risk. During the education process, it is necessary to increase the professional competence of future military specialists in information security in all matters to prevent the emergence of new risk factors and threats of information impact and to take measures to protect against them, as well as information there is a need to create a special education system for training military specialists in security.

- The process of developing the professional competence of future military specialists in the field of information security is based on subjective experience in perception of reality, professional approach and experience in educational practice,

interaction of the military environment on education.

- The analysis of the content of future military training programs shows that they cannot provide sufficient level of development of information security professional competence of future specialists. This requires in-depth research and solution of the problem of formation of conditions for the development of competitiveness of future military specialists in the professional training process at the higher educational institution. In our opinion, this problem is closely related to the following imbalances in the professional training of future military specialists:

- lack of skills to access information systems, resources, telecommunication networks and data bases in the professional activity of future military specialists;

- inability of future military specialists to distinguish the processes related to ensuring information security;

- the inability of future military specialists to create and use hardware and software tools used to ensure information security;

- future military specialists do not have enough skills to collect, store, process and use information related to their professional activities;

- inability to search and analyze architectural and legal documents related to professional activity and use them;

- inability of future military specialists to analyze compliance with local and foreign standards related to information and cyber security;

- inability of future military specialists to study the problems related to the field of information security in their professional activities and develop measures to solve them.

Based on the above opinions, it can be said that although many scientific and research works on the problem of developing information security professional competence of future military specialists have been carried out in higher educational institutions, but the didactic possibilities of developing their information security professional competence , methodology, scientific foundations have not been fully revealed. This requires the need to research the technology of creating and using modern methods of training, didactic tools for the development of information security professional competence of future military specialists.

In the framework of our research, we studied a number of scientific studies on the problems of developing the professional competence of information security of future military specialists and studied these fundamental scientific studies.

Researcher A.A. Korabelnikov believes that "the military education system is a part of the general education system, but at the same time it has its own development bases and its own logic"

"It is impossible to develop the modern Armed Forces without relying on the system of higher military education. Training of officers should be done on a conceptually new basis" [83: B.30]. In the improvement of the system of higher military educational institutions, the joint actions of the subjects of the field are important. In this case, it is necessary to rely on new, promising and advanced approaches to the training of specialists in the field. "Especially providing educational institutions with military pedagogic specialists, bringing the educational process as close as possible to the real tasks that trainees and cadets should perform in the troops will have a high effect"

Theories on the training of future military specialists are part of the concept of training and education of future military specialists. The correct organization of the professional activity of future military pedagogues determines the uniqueness of the pedagogical process of the higher military educational institution. After all, "every officer simultaneously acts as a leader, pedagogue, educator, public figure and military specialist in a certain aspect of the military field"

A number of researchers call "modern pedagogy a polyphonic pedagogy that strives to expand the educational opportunities of each person, to master all aspects of his individual life to the maximum"

O.A. Koysinov, A.V. Barabanshchikov, V.N. Gerasimov, V.P. Davidov, G.A. Davidov, A.I. The Kamenevs studied the methodological and theoretical problems of training future military specialists. Military professional development of future military specialists was conducted by G.A. Volkovitsky, I.V. Biochinsky, I.A. on acmeological approaches to the formation of military personnel. Lipsky, B.G. Mikhailovsky, P.A. Korchemniy, L.G. By the Laptevs, issues of professional communication A.A. Scientifically based by the Shibaevs.

M. Lebedeva and O. Shilova distinguished the basic, general and professional stages of formation of information and communication competence and clearly distinguished the use of information and communication technologies in educational activities and the use of these technologies in solving professional issues.

Z. Alimardonov analyzed the factors of improving the professional competence of a military pedagogue as follows:

Military-pedagogical (level of development of analytical and creative thinking, accumulated experience in solving special military tasks and tactical situations, high level of self-regulation, self-management and professional responsibility);

technological (experience of planning official, operational-tactical and special tasks;

skills of effective use of modern weapons and the possibilities of information and communication technologies);

diagnostic (use of an objective and reliable system for assessing the quality of combat and individual tasks;

implementation of continuous diagnostics of improvement of professional competence at all stages of training;

use of test methods in assessing the level of development of personal qualities of future officers, etc.);

important duty (high level of psychological and moral education, spiritual and moral, strong will and patriotic qualities in future officers;

sociability, development of creativity to the necessary level, etc.) are among them"

"The psychological-pedagogical knowledge of a military pedagogue allows to organize his pedagogical activity from a conscious, purposeful, systematic, scientific point of view, to take a creative approach to solving complex and diverse tasks in the process"

Today, the transformation of training future military specialists in information security reflects the trend of international development. V. Kudryavseva stated that "For the defense system in Russia, military The management structure of the training of pedagogic personnel is as follows: this factor proves that the training of military pedagogic personnel for the defense system and military educational system and development need military pedagogic personnel"

Modernization of the military sector, based on the most advanced innovative approaches, training of mature future military specialists in information security, development of their professional competence, application of modern innovative technologies to the educational process, and wide use of the possibilities of information and communication technologies requires raising to a new level of quality.

When studying the resources for the development of information security professional competence of future military specialists, it is observed that the information security system of the countries of the world is constantly improving, in which:

- improvement of modern methods of information processing and transmission;

- creation of new mechanisms against obstacles in information transmission;

- introduction of barrier-free information system.

- an increase in the weight of information wars in armed conflicts.

As we mentioned above, the improvement of the information security system in the world directly requires the re-modernization of the training system of future military specialists in the field of information security. This directly implies the improvement of the professional competence of information security specialists.

It is necessary to raise the quality of the training of pedagogues in the field based on the requirements for the development of information security professional competence of future military specialists. In this regard, the system of organization and management of pedagogical processes in higher military educational institutions is demanded to be enriched in terms of content. Because of the conditions created in the defense system today, modern changes, the one who can use all the opportunities, is demanding in relation to himself and his activities, who has acquired deep military professional knowledge, works on himself regularly, has the ability to apply modern knowledge, the need for creative thinking, loyal to their profession, skillful military pedagogues is growing.

In the training of future military specialists in the field of information security, it is desirable to systematically organize the training and practice process based on the following requirements:

- development of technical means of teaching based on the most modern educational tools and technologies;

- introduction of resource-saving training technologies in the troops;

- creation of systemically integrated individual and complex trainers;

- development of the simulator base of permanent training units;

- creation and delivery of a set of technical training manuals for educational institutions and military units;

- optimization of types of technical educational support, expansion of systematic supply of new generation technical educational tools;

- development of an integrated system of educational and practical process in order to introduce effective forms of simulator training;

- improvement of existing weapons and military equipment as a result of the introduction of a modern training base.

It is desirable for future military specialists to have the following personal qualities in the direction of developing information security professional competence:

- to have professional knowledge of specialized subjects in his field;

- conducting military education and upbringing in accordance with state educational standards;

- acquired high professional ethics in the course of professional activity;

- regular improvement of professional military skills;
- improving professional skills and pedagogical skills.

In our opinion, in the process of modernization of information and communication technologies and field directions of future military specialists, the updating of educational programs in accordance with the requirements of educational standards and the creation of a new educational base on this basis is a great lesson in the improvement of the integrated system of the educational and practical process. holds rin.

When studying the modern requirements for the training of future military specialists in the field of information and communication technologies, we must directly address the analysis of the factors of formation of the professional competence of information security specialists and develop them based on the requirements for the level of professional training of future specialists.

Development of professional competence of future military specialists should be carried out at all successive stages of professional training. These stages of competence development are provided by the specific nature of this process, the educational content, as well as the qualification requirements for the graduate.

The successful implementation of the professional activities of future military specialists depends on their perfect acquisition of professional competence based on information security knowledge, skills and qualifications.

In the analysis of the types of professional activities of future military specialists, it was studied that specialists in this field should have a high level of knowledge in the field of information, information security, the operation and use of complex technical tools and systems. It is impossible to achieve this knowledge without using modern information technologies in the organization of the educational process, taking into account the development of scientific and technical development in the field. In this regard, the issue of increasing their information literacy is of great importance in the training of specialists.

Successful implementation of professional competence of future military specialists requires highly specialized knowledge of information technologies, information security, technical information protection tools and complexes. The high level of mastery of this knowledge increases the success of professional activity by determining the results of completing tasks.

Summary

Problems of developing information security professional competence of future military specialists and its current state. The process of developing professional competence of future military specialists in information security is a

holistic, constantly changing system. We can see that the structure of this system is determined by the content of education, a set of organizational forms, means of interaction between the subjects of activity, as well as the result of their joint activity.

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