

# A competent approach to the formation of an information technology environment in the process of modern education

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**Annotation:** This article provides information on the reform of the educational system through a competent approach to the formation of the information technology environment in the process of modern education.

**Keywords:** information and communication technologies, competence, artificial intelligence

Informatization of society and the globalization of mass communication are connected with socio-economic development, and information and communication technologies have been introduced into various spheres of human activity. If education is the basis of general cultural, psychological, socio-economic and professional development, then the educational system should advance from the informatization of all spheres of society's life. For this reason, the information and communication competence structure for teachers was developed by the UNESCO Institute of Information Technologies in the educational system. The term competence is derived from the Latin word "comreto" which means "aspiring, achieving, worthy" and means awareness, knowledge and experience in a certain field, which in turn creates a single educational information space. requires. The strategic direction of the development of the education system in modern society is the intellectual and moral development of a person based on his purposeful independent activity in various fields. Along with the developed countries of the world, this direction is considered as the main direction in the process of educational reforms in our country. It focuses on the following tasks:

- reforming the education system;
- recognition of the principle of independent activity as the main principle of education and training;
- introducing modern information technologies into the educational process;

Information reflects the process of social and household life and serves to ensure human activity. Educational activity is no exception. Education is considered the main factor that ensures the development of the society, and it is institutionalized according to the characteristics of its field and history in the way of development and implementation of reforms. Taking into account that the information stored in the human mind requires improvement, it can be observed that the process of ensuring the development of a mature generation is not limited to school and academic lyceum or college and higher education institution. This view, in turn, requires pedagogues to expand the scope of their professional knowledge, constantly familiarize themselves with scientific achievements and innovations, ensure their synthesis, socialization and objectification, and improve their professional activity. That is, continuous education requires a person to learn throughout his life. This is directly related to the process of human socialization, culturalization and professionalization, in which modern information technologies perform a number of functions.

E.M. Razinkinani stated: "As a result of the development of information and communication technologies and their application in all spheres of human activity, as well as the transition to the information society, new requirements are placed on the professional training of specialists." This emphasis requires the development of information-communicative competence of pedagogues in the environment of modern information technologies. A teacher is a person who determines the state of education.

The socio-economic and cultural development of our society depends on his professionalism. Therefore, the decision of the President of the Republic of Uzbekistan dated April 20, 2017 "On measures to further develop the higher education system" No. PQ-2909 was adopted. The decision envisages not only the renovation (creation) of the buildings, computer rooms and laboratories of the Higher Education Institution, but also ensuring the effectiveness of the activities of the professors and teachers of the Higher Education Institution. At the same time, the Regulation on the retraining of the management and pedagogic personnel of higher education institutions and their professional development courses was adopted. This, in turn, requires information culture, criteria for sorting and evaluating information, psychological safety of information, in a word, forming the professionalism of a pedagogue. He noted that "Introduction of modern information technologies in educational processes:

- the student acquires professional knowledge;
- in-depth mastering of the field of science through modeling of the studied phenomena and processes;
- expansion of the field of independent activity of the student due to the diverse organization of educational activities;
- individualization and differentiation of the learning process based on the introduction of interactive communication opportunities;
- by using the capabilities of the artificial intelligence system, the student acquires the strategy of mastering educational materials;
- formation of information culture in him as a member of the information society;
- presentation of the studied processes and phenomena by means of computer technologies is of great importance as it increases students' interest and activity in the basics of science.

In order to become a professional teacher, he must go through certain stages. They can be defined as professional stages.

These stages are called "phase" in science are called a's, they include:

- optant (Latin "optatio" - choice) phase;
- adept (Latin "adeptus" - achievement) phase;
- adaptation phase;
- internal (Latin "internus" - internal) phase;
- mastery phase;
- respect phase;
- coaching phase.

After all, coaching (the level of mentoring) is achieved during a certain period of time with the development of special skills and qualifications and the acquisition of sufficient professional and life experiences. This, in turn, requires the improvement of the personnel training system based on a competent approach, taking into account the demands and needs of the labor market. In our opinion, the idea of a competent approach does not negate the traditions of national education. After all, it is not the sum of the acquired information, but the ability to perform professional actions on the part of the subject in different situations, as a result of the educational process, that is taken into account.

In the theory of competence approach, five main groups of competences are distinguished, these are:

- political and social competences (expressed in the individual's ability to participate in the activities of civil institutions, take part in collective decision-making, and assume responsibility for conflict resolution without using force);
- competences related to a multicultural society (expressed in the ability to understand the essence of differences, show mutual respect, live with representatives of other religions, cultures and languages);
- competence in written and oral communication (expressed in not being distant from the life of society, working in a collective manner, performing tasks of high social significance);

- the competence of the desire to study and learn throughout life (expressed in the provision of individual spiritual life by mastering household, special and scientific knowledge);
- competences related to the creation of the information society (expressed in the ability to manage new technologies, their application, to take a critical approach to messages transmitted through mass media, advertising and other information transmission channels).

This, in turn, requires taking into account the educational-methodical nature of the distribution of information to which groups and classes, for which it is necessary to have special competencies, that is, the quality of sorting information. These competencies require the formation of a complex of important professional qualities (MKS) in the pedagogue. Important professional qualities are the primary basis for ensuring that a specialist operates at the level of professional requirements and standards. The methodological basis for the formation of a set of important professional qualities is the Decree of the President of the Republic of Uzbekistan dated August 27, 2019 No. PF-797 "On the introduction of the system of continuous professional development of managers and pedagogues of higher educational institutions".

The practical application of this decree should be reflected in the professional knowledge, skills and competencies of the pedagogue. Modules introduced in the system of re-training and professional development of managers and pedagogues of higher educational institutions should be focused on the formation (development) of the following pedagogical and psychological characteristics of a pedagogue. These are:

- mnemonic characteristic of the pedagogue (this is reflected in the volume of memory and the speed of information recall, as well as the strength of the mastered materials, the ability to accurately and quickly restore information);
- imaginative characteristics of the pedagogue (this is manifested in the ability of the pedagogue to distinguish different objects and images based on some of their signs in the scope of imagination);
- characteristics of the pedagogue's thinking (this is expressed in the coefficients of general and social intelligence and special intelligence and is manifested in the performance of professional functions);
- attention characteristics of the pedagogue (this refers to the ability to allocate attention, the size and stability of attention, the distribution and migration of attention, and is manifested in the activities of the pedagogue).

Pedagogical activity is distinguished from other types of activity as it incorporates all types of activity. Pedagogical activity is inextricably linked with socio-economic and cultural spheres of society's life. It is considered a foundation for ensuring priority tasks in the field of education and prepares personnel for various fields.

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