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Professional Competence the Acquisition of Special Knowledge, Skills by an Engineer-Builder Specialist

Feruza Islomovna Mamurova
Tashkent state transport university

Abstract. Modern education dictates a new approach to learning. Today, it is necessary to solve the tasks of directing the organization of educational-project and educational-research activities using information and communication technologies. For this, it is necessary that engineers have the qualities of professional competence, in particular, information and communicative competence.

Key words: education, knowledge, information and communication, technology, engineers, professional competence.

In many studies carried out in connection with the requirements that modern economic and social development imposes on the educational system, the competence approach was considered as a new stage in changing the content and methods of Education. In many studies from this point of view, competence is interpreted as a set of interrelated personal qualities necessary for productive and creative activity, and competence as the acquisition of the necessary competencies by a person, which allows solving any problem related to a particular area.

Professional competence implies not the acquisition by a specialist of special knowledge, skills, but the assimilation of integrative knowledge and actions in each independent direction. The competence also requires the constant enrichment of knowledge of the specialty, the study of new information, the ability to understand important social requirements, the search for new information, the ability to process and apply them in their activities

Professional competence is clearly manifested in the following situations:

- in complex processes;
- when performing ambiguous tasks;
- when using contradictory information;
- a professional with professional competence in being able to have a plan of action in an unexpected situation:
- consistently enriches his knowledge;
- absorbs new information;
- deeply understands the requirements of the period;

➤ seeks new knowledge;

As many researchers note, a number of competencies are also reflected in the professional competence of employees of the industry. These are: psychological, methodological, informational, creative, innovative and communicative. They represent the following content in themselves:

psychological competence-the formation of a thoughtful psychological environment in professional activity, positive communication with industry representatives, colleagues, classmates, timely understanding of various non-destructive psychological resistance and being able to overcome it;

methodological competence-methodological fair Organization of the educational process, the correct selection of types and forms of education, methods and tools, and their application in accordance with the goal;

information competence –the implementation of various, targeted actions and rational use of resources of useful information used in the information process that the employee uses in his professional activities;

communicative competence is the ability to sincerely communicate with all participants in the future professional sphere and educational process, including colleagues and students, to be able to listen to them, to have a positive effect on them;

innovation competence-improvement of the professional process, reform of the quality of education and professional qualifications, promotion of new ideas on improving the productivity of professional activities and their effective use in practice;

creative competence is a creative, critical approach to the activities of the industry, to be able to show that they have their own creative abilities.

During the reform of the education system, the entry of new knowledge that needs to be mastered imposes great responsibility on specialists in the field. Because, the role of teachers in giving the future specialist knowledge corresponding to the requirements of modern Jahan standards, preparing them as an independent thinking, mature specialist of his field is of great importance. This in itself requires teachers to be sought, to work hard on themselves, to master the news quickly and to work diligently in their transmission to students. Especially in the field of information technology, it is a sphere of knowledge, skills and abilities that are fully, perfectly mastered and applied to young people in order to convey to future specialists the information that is increasing day by day, to direct them to their rapid assimilation, and then to pass them on to young people.

It seems to us that information and communicative competence is the ability of a specialist to master skills, qualifications, experience in the effective organization of professional activities (motivational level), full awareness of the functionality of information and Communication Technology (cognitive level), be able to effectively use them on the path to the implementation of professional goals, create a product of Creativity (Activity-reflexive level). The definition refers to one of the general professional qualities of specialists operating in various fields. Based on it, there is an opportunity to express the concept of "information and communicative competence of an engineer-builder." Information and communicative competence of an engineer-builder-the ability of an engineer-builder to master skills, skills, experience in the effective organization of professional activities (motivational level), full awareness of the functionality of informatization technology (cognitive level), to be able to effectively use them on the way to the implementation of engineering goals, to create a product of Creativity (Activity-reflexive level).

Modern education dictates a new approach to learning. Today, it is necessary to solve the

tasks of directing the organization of educational-project and educational-research activities using information and communication technologies. For this, it is necessary that engineers have the qualities of professional competence, in particular, information and communicative competence.

Hence, the need for rapid development in the conditions of informed education, the ability to work with them, the use of the capabilities of computer technology in the educational process necessitates the need for the manifestation of information and communicative competence on the basis of the professional competence of the engineer-builder. The concepts of "competence", "competence" were first used in the pedagogical lexicon in the 50-60s of the last century. The goal is to find a solution to the existing problem that has arisen in the educational system of foreign countries. As a result of theoretical analysis, the confidence was further strengthened that the technical, technological, functional capabilities of modern information technologies will also contribute to the development of information and communicative competence of engineers with the help of Information Technology in the system of advanced training in modern conditions.

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