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Organization Of Training in An Educational Tool Programmed in The Subject of Technology, Theoretical Foundations of Its Improvement

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Annotation: this article is devoted to the correct Organization of training in technology, the orientation of students in general secondary schools to the profession in the spirit of love for the motherland, devotion to the ideas of national independence, creating conditions for their conscious and independent career choice.
Keywords: technology, teaching process, Educational System, Information Communication Technology, pedagogical technology, vocational

Introduction

The changes taking place in the social, economic, political and ideological life of our republic, namely the rapid development of Science and technology and many other factors, necessitate a radical reform of the system of continuing education, including the process of providing education to students in general secondary schools, on the basis of modern requirements.

The correct Organization of training in technology, the education of students in general secondary schools in the spirit of love for the motherland, devotion to the ideas of national independence, the creation of conditions for their conscious and independent career choice, the implementation of impressive tools and methods of professional orientation work, and the training of pedagogical personnel in new professions and specialties related Because the contribution of students of general secondary education schools to their place in society, active participation in life, proper organization of training in the subject of technology in the presence of conscientious service professionals is invaluable.

The noted feedback is the main criterion in determining the current and prospective master tasks of Technology Science, which is taught in schools of general secondary education. Because, the science of technology is a science that, according to its content, essence and tasks, provides for the implementation of all natural and socio-economic knowledge into practice, summarized and embodied. In this context, the science of technology is the main factor that ensures the unity of theory and practice, allowing students to put their acquired knowledge into practice.

Analysis of the research carried out to improve the process of teaching technology in general secondary education schools and the results of our practical work experiences have shown that the following are important in this regard:

- Development of theoretical foundations for the use of programmed educational tools in the teaching of technology in secondary schools;
- to determine the degree to which teachers of the future technology will be able to use programmed educational tools, as well as improve it;
- creation of programmed educational tools in the teaching of universal subjects;
- development of a methodology for using programmed educational tools in the teaching of Technology Science.

For this, the:

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- a database of the latest achievements of Science and technology and their practical importance, as well as being able to enrich it on a regular basis;
- to have a base of innovative competencies suitable for the professional activities of teachers of technology;
- having a database of relationships with technical means (details, devices, mechanisms, compounds, machines, etc.) related to various professions and being able to use them as educational information when conducting professional activities (using knowledge, skills and qualifications in practical activities;
- acquaintance with the scientific basis of innovation production;
- having practical skills (measurement, calculation, processing assembly) based on technical objects and technological processes;
- it is necessary to have the knowledge and skills of the various details and their parts, nodes, compounds, technical devices, mechanisms and machines necessary for the owner of many professions.

The acquisition of such knowledge and skills leads to the improvement of technology functions in future specialists and provides opportunities to apply the knowledge and skills gained to other types of activities.

In the teaching of technology in secondary schools, it was determined that the solution of the following important issues is an urgent task:

1) introduction of the use of programmed educational tools in the process of teaching technology in secondary schools, determination of the degree of development of skills and abilities of students to be able to apply programmed educational tools in their future professional activities;

2) scientific justification of the role and role and importance of programmed educational tools in the development of technology teachers as mature specialists who meet modern requirements;

3) organization, conduct and practical implementation of experimental and test work determining the level of formation of sufficient skills and qualifications in order to be able to use programmed educational tools in the teaching of technology in secondary schools;

Due to the rapid development of Science and technology, the content of knowledge, skills and qualifications that the future teacher of technology, which is being prepared in higher educational institutions, should have is constantly changing and increasing in size. This, in turn, assumes that they must have a system of knowledge, skills and qualifications that allows them to effectively use information and computer technology in their future professional activities. In other words, the effective use of information and computer technology as a didactic tool in the training of teachers of technology is an important factor in improving the quality of education given to them. But the analysis of existing experiments on the application of information technology to the process of training teachers of future technology has shown that there are the following disadvantages in this regard:

- insufficient readiness of pedagogical teams of technological educational direction of higher educational institutions to apply programmed educational tools to the process of training teachers of technology;
- the inadequacy of programmed educational tools, the absence of methodological developments on their application, which allow the implementation of practical exercises in the educational process of the technological educational direction in a virtual way.

The development of basic mechanisms of integration with science and production in the organization of training sessions, its introduction into practice, individualization of reading, independent knowledge, development and mastering of the technology and tools of the distance

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learning system, acceleration of students ' studies using a modular system based on new pedagogical and information technologies are among such urgent tasks.

Today, considered the age of information, for the first time in history, many areas of human activity are associated not with material objects, but with information processing. Therefore, today it is important to train young people to live and work in the information age, to form the skills of collecting, storing and transmitting information from them. These, in turn, serve as an important basis in the development of many abilities of students, including inventive abilities, since from the proposal of any new idea it will be necessary to study in detail the area previously considered, find new information and learn to associate it with the proposed solution. To carry out these tasks, on the other hand, it is necessary to process a large amount of information that cannot necessarily be stored in ordinary human memory. The capabilities of programmed educational tools make it possible to easily and efficiently solve this problem through automated training and information systems, knowledge banks and data banks. In this regard, at the next time, a lot of attention was paid to this area in our republic.

Conclusion

Practice shows that, despite the wide development of programmed educational tools, they have not developed enough theoretical and practical, scientific and methodological foundations necessary for their use in the process of professional training of teachers of the future science of technology. The technological educational direction of higher pedagogical educational institutions has the following two directions of the use of computer technology in the educational process.

Mastering knowledge, skills and qualifications in the first direction leads to knowledge of computer capabilities, the formation of skills for their use in solving various issues.

In the second direction, computer technology serves as an important means of improving the efficiency of the educational process.

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