

### Formation of Technological Competencies in Students of Technological Education Based on an Innovative Approach

Abdurasulova Ominahon Jakbarali qizi

#### Article Information

**Received:** December 26, 2022

**Accepted:** January 27, 2023

**Published:** February 28, 2023

**Keywords:** *innovation, innovative processes, innovative education, innovative technologies, measured value, technological competence.*

#### ABSTRACT

*In the educational process, conducting classes based on innovations or innovative approaches, introducing elements of innovative education into the activities of educational institutions, and at the same time having an understanding of pedagogical innovations was considered as an important factor.*

The change in the role of education is largely determined by innovative processes. In the past, education was aimed at "preparing students for life", forming knowledge, skills, informational and social skills in them, but now it is more focused on creating technologies and methods that affect the individual. This, in turn, helps to ensure the balance between social and personal needs, self-development (self-improvement, independent education), manifestation of individuality and serves to ensure readiness for changes in society. Educational institutions introduced elements of innovative education into their activities, as a result of which serious conflicts arose between the need for faster development and the inability of pedagogues to implement it quickly. Innovative development of school education from a modern point of view seems easy on the surface, but it is a very complicated task, where "new", "innovation", "innovation", "innovative processes", "innovative education", " It will be necessary to thoroughly master and rely on such concepts as "innovative technologies" from a modern point of view.

Deep socio-economic, political and legal reforms implemented in our country are inextricably linked with innovative approaches in the life of the country and society, in the field of education. Innovative approaches indicate the need to pay special attention to the preparation of future specialists for innovative activities.

Until now, there are several definitions of the term innovation, among them:

"Innovative technologies are fundamentally new methods and methods of interaction between teachers and students, which ensure effective results in pedagogical activities."

In order to form the technological competence of students based on an innovative approach, a science teacher should, first of all, have an understanding of pedagogical innovations. Pedagogical innovation processes have been specially studied by scientists since the end of the 50s of the last century in Western countries, and in the next 10 years in independent Uzbekistan.

In recent years, scientists of our country have been conducting scientific research on innovation, innovative thinking, innovative activity, innovative market, and pedagogical innovations.

Nowadays, innovations in the education system are becoming relevant. After all, education is one of the main areas that determine human existence. In the modern education system, one of the main requirements of the society is to raise and form a person who is well-developed, able to find non-standard solutions in complex situations, think creatively and receive continuous education throughout his life. At a time when attention is being paid to science, it is important to optimize the use of measurement tools in the teaching process.

In particular: "In order to optimize the selection of measuring instruments, it is necessary to have the following initial information:

- 1) the nominal value of the measured value;
- 2) the value of the difference between the maximum and minimum values of the measured value, regulated by regulatory documents;
- 3) information about the conditions of measurements." [4]

It is also worth noting that the formation of technological competence in students is a comprehensive continuous education, upbringing and development aimed at preparing students for a technological lifestyle, mental and physical work for general well-being, practical and moral-psychological readiness. is a process.

Today, the goal of forming technological competence is to form readiness for honest, creative work in various directions, to strengthen the health of a person, and to help in all-round development.

The results of the study of the current state of the formation of technological competences among schoolchildren indicate that directing the technological education and educational process to the needs of material production is of primary importance. The development of the system of formation of technological competences among schoolchildren in the educational environment of Uzbekistan envisages the formation of a unified system of teaching them by directing them to practice, as well as creating material and moral values in various fields of activity. At the same time, it is worth noting that in the context of socio-economic changes in society, the same problem has not yet been fully solved theoretically and practically, because in the conditions of stagnation, i.e., stagnation of the education system insufficient attention was paid to the formation of technological competencies in students. However, the newly introduced technology has the ability to integrate and create a system in the school.

Also, the first direction of technological education organized on the basis of an innovative approach is the formation of a scientific and technological worldview based on the application of theoretical knowledge in various forms of practical activity. The second direction is technological education aimed at forming practical work skills, and the third direction is the constant involvement of students in socially useful work. In this case, unity of learning, work and social activity of students is of decisive importance.

Despite the number of common approaches to the interpretation of technological competencies, the formation of technological competencies in students is traditionally limited to some issues of technological education in the field of material production and services.

Pedagogy involves preparing students not only for ordinary work, but also for real socio-economic processes. Based on this, instead of the concept of "labor education" in the theory and practice of general education, the concept of "technological education" began to be widely used. The issue of improving the content of technology is one of the most important modern directions of the general secondary education system.

In general, the main goal of the field of technological education is to help prepare students for independent creative work in new socio-economic conditions. The technological field of education forms the experience of working in cooperation based on the application of acquired knowledge in practice, creative, analytical thinking, and the involvement of students in various types of creative activities.

The abilities described below are formed during the entire educational and working activities of students. The essence of technological education is to create the most optimal conditions for the formation of the above abilities in students.

To solve the tasks of competence formation, the goals describe the existing system of technological education as an element of systematic organization of practical educational activities. If the system of formation of technological competences among schoolchildren ensures the formation of a person prepared for social and labor activities and creativity in modern economic conditions, it is considered appropriate for the general purpose.

### **References.**

1. Golish L.V. Ta'lim shakllari: mazmun, tanlash va amalga oshirish. T-2002
2. Zaripov L.R. Mehnat ta'limi jarayonida individual yondashuv asosida o'quvchilarni intellektual rivojlantirish // "Ta'lim tizimidagi hamkorlik: ustuvor yo'nalish va dolzarb vazifalar" mavzusida Respublika ilmiy-amaliy anjumani. Ma'ruza tezislari to'plami.227-229b 16.02.2013 yil. T.D.I.U
3. Ishmuhamedov R., Abduqodirov A., Pardaev A. Ta'limda innovatsiyalar (ta'lim muassasalari pedagog o'qituvchilari uchun amaliy tavsiyalar). T.: "Iste'dod" jamg'armasi, 2008.–B.180.
4. To'rayev.M.,Karimova.M. Analysis of the Methodology of Introduction Into the Educational Process of Modern Technical Measuring Equipment Used in Production, as Well as Caliper Nutrometry and Measurement Methods.Vol. 11 (2021)Published November 25, 2021 European Journal of Life Safety and Stability ISSN 2660-9630 (EJLSS) – 176-179 b