



ORGANIZATION OF DUAL TRAINING THROUGH THE STEAM APPROACH IN HIGHER EDUCATION

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ABSTRACT

This article is an important role in the organization of dual education. Steam education is better than a number of traditional teaching, which is clarified by the unique features of dual teaching, ie the concepts such as the unification of practical experience and theoretical training.

KEYWORDS:- Dual Education, Steam-Education, Steam-Support, Design, Engineering, Engineering, Integration, Professional Activities, Creative Thinking, Practice.

INTRODUCTION

Article 15 of the Law of the Republic of Uzbekistan on the new Education Law of the Republic of Uzbekistan has provided 8 forms of education, which is one of the forms of education [1]. In carrying out this training, the decision of the Cabinet of Ministers dated March 29, 2021 № 163 “on measures for the organization of dual education in Professional education” was adopted and began to be used in professional education processes starting from 2021/2022 academic year[2]. The idea we offer is to introduce the step-by-step dual education to higher education institutions.

Literature review. Dual training has long been present in the pedagogy, proving itself in the world in different countries. The main directions of application of dual education are higher and professional education. Although Dual education is recently incoming in Uzbekistan, it is already a

very popular approach to train new professional staff. A distinctive feature of the dual teaching is the union of practical experience and theoretical training. It is the such a new approach in the system of professional education provides quality preparation of future highly qualified specialists [3].

Scientific novelty of the article. One of the instruments of investment attractiveness and competitiveness of the territories through training of high-tech production requirements is this dual education system, which is the coordinated interaction of teaching and industrial areas in training specialists and the high level of graduates is to provide employment.

Analysis and results. Forms of dual education are mainly used in areas such as engineering, economy and social security. At the same time, specialty, like specialty, also cover machinery, engineering, construction, real estate industry, tourism management and social management.



Germany is the leader in the world's national education, in which the developer system of vocational education, the active training and personnel training, is distinguished by the active participation of business. The experience of this

country will serve as a model for the whole of European Union [4]. We can see the advantages and shortcomings of dual learning in Table 1 below.

Table.1

Advantages and disadvantages of dual education	
<i>Advantages of Dual Education</i>	<i>Disadvantages of Dual Education</i>
The practical section is carried out not only in the workshops and in the fields of educational institutions, but also in enterprises.	The quality of education with teaching motivations at the enterprise may decrease.
The content of working programs is agreed among educational institutions and employers.	Work programs do not always comply with the seasonal sequence of work performed in production.
Close relations between the educational institution and the enterprise can arise and develop.	The educational institution may not always be able to deliver the necessary training materials for enterprises.
When the graduate is employed, the knowledge can immediately apply can apply the accurate descriptions, as well as the same level of preparation.	It is not enough to teach enterprises - as a result of which there are no learning space.
The continuous change in the educational institution and the	Enterprises are obliged to work on their products through high prices (lack of



enterprise helps good motivation and the production process is not strictly interrupted.	equipment, lack of financial loss, etc.).
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Advantages and disadvantages of dual education. In the organization of dual education, the need to establish Steam - Educational Organizations. (Fig. 1).

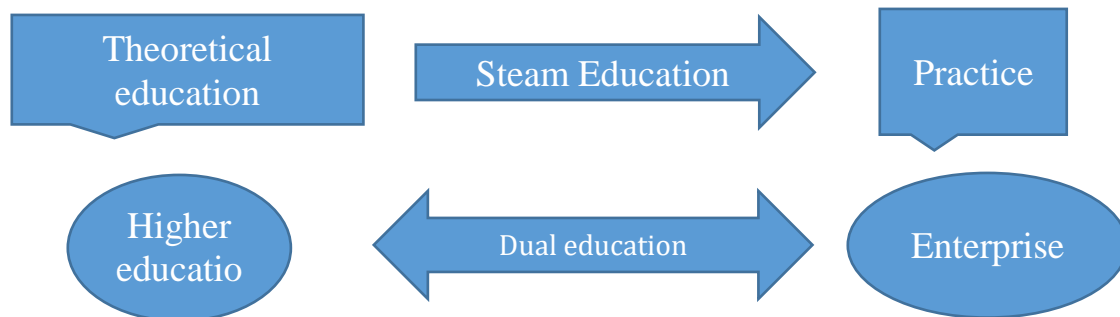


Figure 1. Use Steam training in organizing Dual education.

The term steam was first included in the School Program in the United States, and students are aimed at developing their competence in scientific and technical directions. This route was later expanded and additional letters were included in the term. In particular, he began to call Steam by adding "Robotic robot technology or" A "- by adding Art art. This concept was adopted as a inovational approach to education. The most popular example of the STEAM approach is the Massachusetts Institute of Technology. The motto of this famous university is "mind and hand". The Massachusetts Institute of Technology has developed STEAM courses and even opened STEAM training centers in some educational institutions[6].

Steam helps students develop the following important features and skills. Comprehensive understanding of problems, understand creative thinking, engineering approach, understanding, understanding, and use design foundations, and others. Technology of Steam Education is carried out through the methods of constructucts, design and modeling and on its basis lies the theoretical knowledge, as well as artistic research. This training unites students closely knowledge of theoretical and practices. The Steam-approach allows students to open new concepts, creative thinking, understanding, understanding, logical observation, to understand the mutual observation, the theory and the interaction in theory and practice [5].



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