



# Design of Educational Technologies in the Development of Professional Competences of Technology Teachers

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## ABSTRACT

The article highlights the importance of shaping students' knowledge, skills and competencies through the use of educational technology in technology lessons.

### Keywords:

Metal, interactive methods, processing, training.

President of the Republic of Uzbekistan Sh.M.Mirziyoev in his Address to the Senate of the Oliy Majlis in December 2017, A strong national idea for the technological development of Uzbekistan and the modernization of the domestic market, a national program is needed, in this regard, the formation of an innovative renewal program of the state, Ensuring effective interaction of the educational process with practice, which is very important for the training of a new generation of professionals who will effectively use innovation and investment, a new class of investors, organization of retraining and advanced training of public educators through mobile training in educational institutions equipped with modern equipment and technologies; the introduction of innovative scientific achievements, the use of modern pedagogical and information and communication technologies, distance learning, the introduction of techniques and technologies in the education system to expand independent learning. [1]

The scope and depth of the reform of the education system is very wide, and the state and society guarantee it. The main condition for improving the effectiveness of teaching in higher education is largely determined by the level of knowledge of professionals trained in educational institutions, the formation of a scientific outlook and the composition of future professional skills and competencies. Of course, vocational training does not happen by itself, but involves certain stages. These changes have not limited the field of technology education. At present, the direction of technological education is the formation of knowledge, skills and competencies in the field of technology education practicum (plumbing) in the development of creative activity of students in the teaching of special subjects and the organization of extracurricular circles of higher education students. is important. As a result of the reforms, the transition of higher education institutions to work in new conditions places high demands on the activities of teachers, the content and level of their professional and

pedagogical training, and the improvement of their knowledge.[2]

It is well known that teaching methods are the subject of the pedagogical process, which consists of the teacher's activities with students to achieve specific goals, such as "what?", "To whom?", "How?" and "how much?" addresses the need for training. Therefore, the activation of students' learning activities in the educational process, the appropriate choice of forms and methods used for their independent, creative thinking will be effective in further improving the training of personnel in the future. As a result, much research is being done to improve teaching. As with any subject, technology education requires a certain amount of knowledge, skills, and competencies.

It is important to develop special methods of teaching in higher education to solve such methodological problems. [4]

OK Tolipov "Pedagogical technologies for the development of general labor and professional skills in the system of higher pedagogical education" economic, NAMuslimov's work on the development of effective pedagogical technologies based on the requirements of spiritual reform, as well as the problem of developing forms and methods of professional and personal development of a future teacher of vocational education in the process of higher education. opinions on the distance education system and the use of e-textbooks as a factor providing a positive solution to it were considered problems.[5]

Each lesson is new information for the student. In particular, the formation of students' knowledge and skills through new learning materials is a key factor in ensuring the quality of basic education. Working in small groups, working independently, using practical methods, and similar non-traditional teaching methods are effective in imparting new knowledge to students and building skills based on the new knowledge gained. With this in mind, a lot of practical work is being done today to effectively organize the educational process. At the heart of the learning process is the student's personality, dignity, and spirituality, and each teacher must be able to

organize the process effectively and fun. It is important to keep in mind that person-centered education serves as a driving force for the organization of the student's educational work, fulfilling his interests, desires and needs. Student-centered education, increasing the student's activity, teaching independent, creative thinking, ensuring independence and freedom, acting on the basis of interests, using their inner potential, additional education through their own interests sending to receive involves self-improvement. [4 ]

In the interactive learning process, the lesson is based on student interaction. Derived from the English word interactive, "Interact" means "interaction", "act" means action, influence, activity. The interactive method serves to develop personal qualities, to ensure the acquisition of knowledge under the influence of their interaction, by increasing the activity between the teacher and students in the educational process. Using these methods will help increase the quality and effectiveness of the lesson. Its main criteria are informal debates, free expression of educational material, independent narration, independent reading, study, seminars, opportunities for students to take initiative, small group , large group, assignments to work as a class team, assignments, writing assignments, and more. [6]

This is a characteristic feature of modern lessons. Management of problem-based learning requires pedagogical skills, because the emergence of a problem situation is an individual situation and requires a differentiated and individualized approach..

Another characteristic of problem-based learning is that the use of this method not only increases students' knowledge, but also stimulates their interest in the subject.

Here are some suggestions on how to look or get an appointment for hair extensions:

- Conflicts arise on the topic and students are invited to look for solutions;
- It is proposed to make a different assessment of the problem situation;
- Problems in theoretical and practical tasks are identified;
- compare, summarize and draw conclusions;

- specific questions will be asked

The use of pedagogical experience by advanced teachers in the teaching process of each teacher can have a significant impact on the effectiveness of the lesson. [3]

When applying best practices to the classroom, it is important to take into account the working conditions. It takes into account the content of teaching, the age of the students and the activities of the teacher. In the pedagogical process, the creative side of the experience

must be approached. The history of teaching methods has shown that exaggerating one issue in a teaching method can have a negative impact on other issues. Only a combination of methods and teaching aids can lead to positive results. Below we recommend the students' knowledge of the module "Manual Metalworking" through practical training topics, assignments on the materials that students need to master.

Technology Education Workshop (Plumbing)

### 1. TERMS OF WORKING IN TERMS

**1- assignment.** Pair the number of terms with their definition.

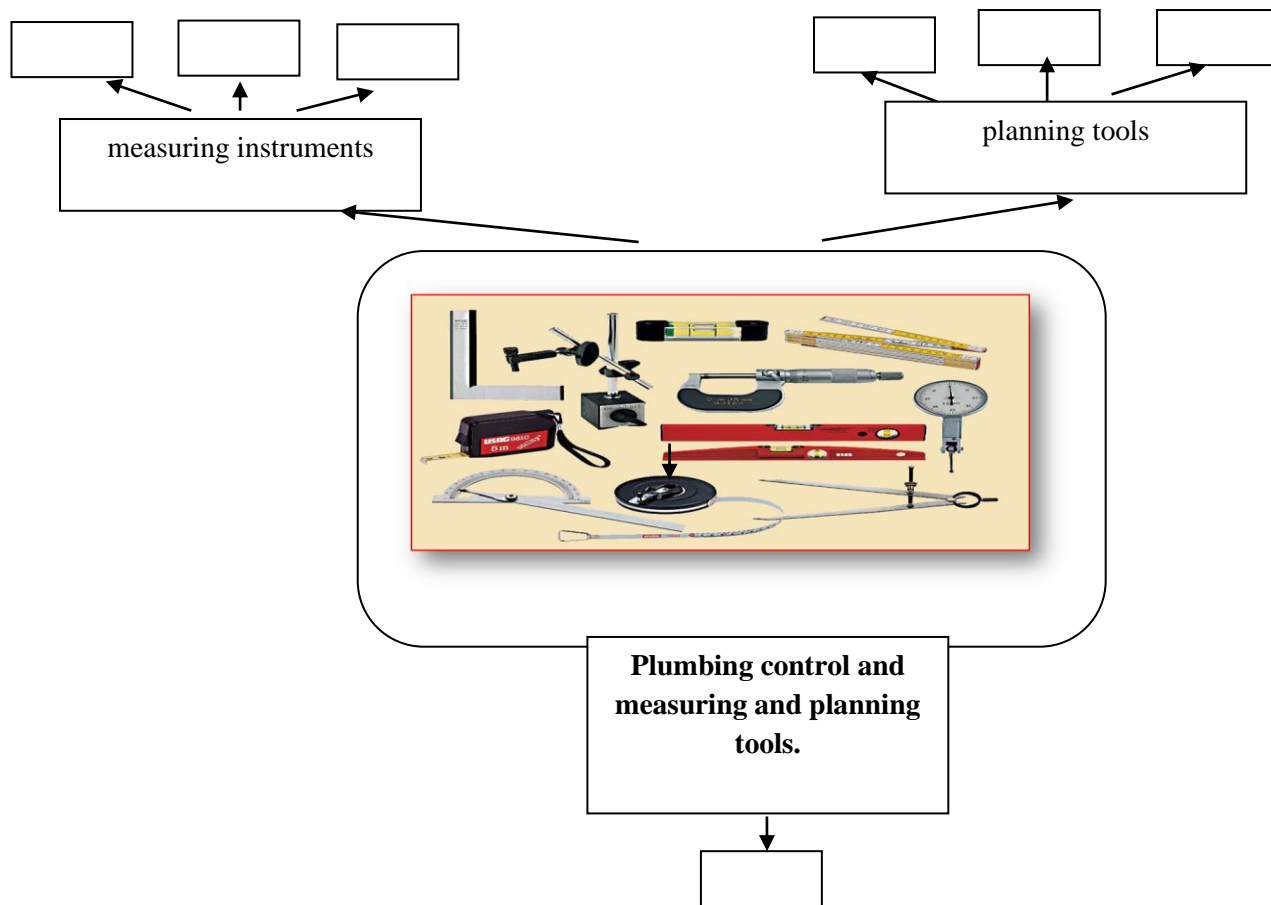
1	<b>The profession of plumber</b>	A	a device for fast and accurate fastening of materials
2	<b>Plumbing screwdriver</b>	B	a planning tool used for centering, pointing, and parma positioning
3	<b>Plumber</b>	D	Professionals in cold processing of metals.
4	<b>The ruler</b>	E	a document describing the exact dimensions of the workpiece or workpiece, the sequence of work, and the tools and equipment used.
5	<b>Technological map</b>	F	provide him with everything he needs to do a certain type of work and put him in a comfortable position
6	<b>Create a workplace</b>	H	adjust the height of the bench according to the height of the student.
7	<b>The height of the workplace</b>	G	a drawing tool used to perform planning work using the templates obtained
8	<b>Roulette</b>	J	is a universal measuring instrument that can measure linear external, internal and depth dimensions.
9	<b>Satan</b>	K	a device that measures the horizontality of a surface and measures deviations from it, which are relatively small.
10	<b>Barbell</b>	L	a cloth or steel tape measure used to measure large lengths.

Homework answer: **1 -D; 2 - A; 3 - B; 4 - G; 5 - E; 6 - F; 7 - H; 8 - L; 9 - K; 10 - J.**

**Control Through The Cluster**

**1 - assignment. Plumbing control and planning tools**

**divide into groups:** 1 Barbell; 2 Angle gauge; 3. Scale line; 4. Micrometer; 5. Satan; 6. Ruler; 7. Plumbing control and measuring and planning tools.



Cluster response:







measuring instruments – 1, 3, 4.

planning tools – 2, 5,6.

Plumbing control and planning tools – 7.

**10. Identify the types of plumbing tools and write the appropriate numbers under each picture on the table.**

1) Barbell measuring instrument; 2) Gunya; 3) Tiski; 4) Ambur; 5) Igovs; 6) set of keys;

					
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>

Rasmlı va ko'p javoblı nostandart test javobi quyidagicha bo'ladi.

<b>2</b>	<b>1</b>	<b>4</b>	<b>3</b>	<b>6</b>	<b>5</b>
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**11. Identify the types of tools used in the training workshops and write the appropriate numbers under each picture in the table.**

1) Micrometer; 2) Dust; 3) Hammer; 4) Atvyorka; 5) Cutting clamp; 6) Plumbing saw;



**Rasmlı va ko'p javoblı nostandart test javobi quyidagicha bo'ladi.**

<b>2</b>	<b>1</b>	<b>6</b>	<b>4</b>	<b>3</b>	<b>5</b>
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**3. Picture assignments for students to identify objects and understand processes.**

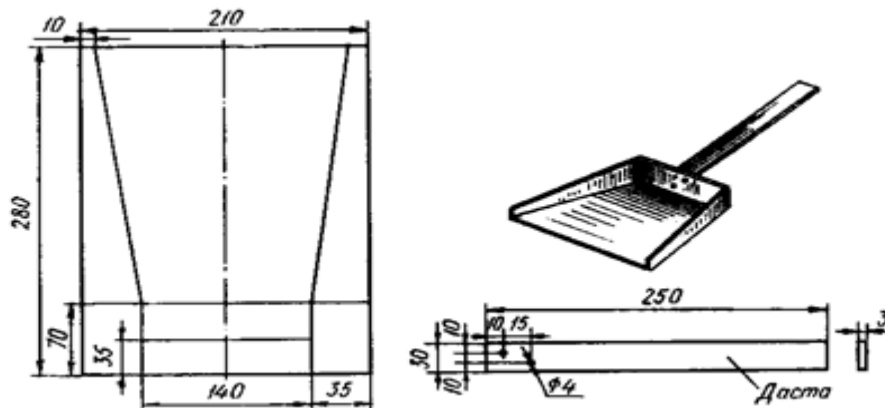
Comment on the picture.



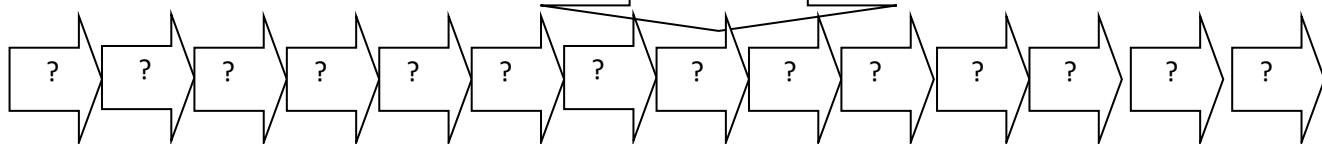
- 1 \_\_\_\_\_
- 2 \_\_\_\_\_
- 3 \_\_\_\_\_
- 4 \_\_\_\_\_
- 5 \_\_\_\_\_
- 6 \_\_\_\_\_
- 7 \_\_\_\_\_
- 8 \_\_\_\_\_
- 9 \_\_\_\_\_
- 10 \_\_\_\_\_

6. Tasks to determine the sequence of processes.

Assignment 1. Create a sequence of steps in the process of making a paddle.



Stages of the process of making a spoon



1. Paint.
2. Mark the location of the rivets on the handle
3. Separate the side walls from the back walls by cutting according to the plan.
4. Fold and sew the back wall
5. Bending the side walls.
6. Schematic planning.
7. Mark and drill holes in the back wall to fit the handle.
8. Bending the back wall.
9. Drill holes in the handle.
10. Select the appropriate material for the handle and make a blank in the size of 252 mm
11. Rive the handle onto the spatula.
12. Clean and decorate the paddle.
13. Selection of material for the paddle and cutting of blanks in the size of 285 × 215 mm

2 - Answer to the task: 13; 6; 3; 8; 5; 4; 10; 2; 9; 7; 11; 12; 1 ;

All specialties taught in higher education institutions have the functions of not only informing and teaching, but also developing, integrating and educating ideas. It is obvious that each science teacher has the task not only to equip students with scientific knowledge available in the structure of the subject, but also to develop their scientific concepts and ensure their integration with other concepts, as well as to educate students in the spirit of national values. Therefore, in preparation for the next lesson, each teacher should choose the teaching material in accordance with the requirements and

principles listed above, and effectively use the relevant concepts to bring it to the attention of students.

The formation of the professional competence of a future teacher depends on his place in society, the duties and responsibilities of the pedagogical higher education institution, as well as individual abilities. The creative individuality of a teacher is determined by the level of development of his individual characteristics (scientific content of thinking, creative approach to work, striving to realize their potential, etc.). The psychological and pedagogical conditions for the development

and improvement of the creative individuality of the future professional teacher are reflected in the composition of professional qualities such as originality and expediency in order to find a solution to their contradictions..

The modern creative teacher realizes not only his own, but also his life goals in choosing the reproductive method of pedagogical activity and the choice of creativity. He changes himself qualitatively, overcomes psychological barriers, seeks opportunities to develop important professional qualities, develops his own pedagogical concept. In general, for a teacher's pedagogical activity, firstly, innovative orientation, and secondly, such features as a creative approach to their work, individuality are very important. A creative teacher realizes that it is impossible to achieve a high position in professional activity without self-improvement, development of individuality and formation of professional competence. That is why it is impossible to acquire new technologies without developing the qualities that are necessary for a profession as a vital goal. These two directions can be considered as an indicator of the creative individuality of the teacher. The pedagogical style of the teacher is a means of expressing the individual's individuality in the form of a system of harmonization of the conditions of professional activity, the source of individual creativity and the result of creative activity..[5]  
In short? The use of educational technology in the development of professional competencies of students serves to increase the effectiveness of practical training on the subject "Technology".

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