



 Research Article

## EDUCATIONAL TECHNOLOGIES USED IN TEACHING TOPICS RELATED TO THE DEVELOPMENT OF ENVIRONMENTAL COMPETENCE IN WASTE MANAGEMENT

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### ABSTRACT

In this article, educational technologies used in teaching topics related to the development of environmental competence in waste management were disclosed in the training of PEO directors.

### KEYWORDS

Vitagen technologies, Reflexive technologies, Facilitation technologies, Information and communication technologies, waste management.

### INTRODUCTION

Fundamental improvement of the education system of the new Uzbekistan, based on the priority tasks of socio-economic development of the country, fundamental revision of the content of personnel training, preparation of highly educated specialists corresponding to the level of international educational standards and in order to ensure the creation of the

necessary conditions for improving their qualifications, the following tasks should be performed:

Establishing close cooperation relations with the world's leading scientific and educational institutions in improving the qualifications of PEO directors, widely introducing advanced pedagogical technologies, curricula and teaching-methodical materials based on international educational standards into the



educational process. , conducting master classes related to educational and pedagogical activities is an actual process today.

Literature analysis: The issue of using pedagogical technologies in the process of professional development is one of the most urgent issues today. After all, many researchers have worked on creating methods of effective use of innovative pedagogical technologies and their implementation in the educational process. V.P. Bepalko[2], LB Faberman. [4], A.K. Rakhimov[3], Dzhoraev R.Kh[5] and others conducted research on the importance of advanced pedagogical technologies in their research.

Research methodology: a system of pedagogical methods of waste management in a preschool educational organization was determined and placed on the following hierarchical level: collection and analysis of information related to the topic; determining the effectiveness of activities and evaluating the state of implementation of experiments; testing and implementation in the advanced stage of pre-school education.

Analysis and results: Based on the analysis of these studies, an innovative educational technology for the development of environmental competence in waste management was developed in the training of PEO directors (Fig. 1).

The goal of reflexive technology is focused on creating the ability of the learner on the relevant issue [6]. In the organization of the educational process, reflexive technology is used verbally: oral discussion, story, details of events, survey, and non-verbal: video training, essay, written questionnaire, graphic or graphic of changing events. it is recommended to use it through pictorial images [1].

In our research, the purpose of Reflexive technology is to create the PEO director's waste management

capability. For this purpose, in the theoretical training of the educational module "Environmental education and safety of life activities in the IRPDDSPEO" applied to the training plan of their professional development, the scientific evidence that the proper management of waste is the main environmental problem The use of reflexive video training is effective in conveying based information to the audience. Reflexive video training is the most widely used effective method of reflexive methodology and is considered as the main factor in the personal and professional development of PEO directors. When creating a video training, it is necessary to know that the listeners have an ecological educational and ecological spiritual experience in relation to waste, and the methodology is developed taking these factors into account.

We widely used reflexive video training tools in conducting pilot tests of our scientific research work. In this, we were effectively helped by the documentary film "Garbage" shot in 2018, which describes the processes related to waste on the planet Earth and the unpleasant reality of the future if this process is not regulated quickly. In such a reflection, the professional qualification of PEO directors, the level of competence in waste management will increase and the ability will be born. The development of ecological competence in waste management in the training of PEO directors - reflexive technology - is a holistic view of ecological education, which serves to form the listener's ecological consciousness and culture.

The following ecological, moral and ecological educational issues are solved in PEO directors through reflexive technologies on waste management:

1. Formation, development and refinement of environmental views of PEO directors regarding the negative impact of waste on nature, human health, atmospheric air and all living organisms;



2. To change the attitude of PEO directors towards environmental processes and waste to children in PEO in the organization of training in sorting and their proper management;

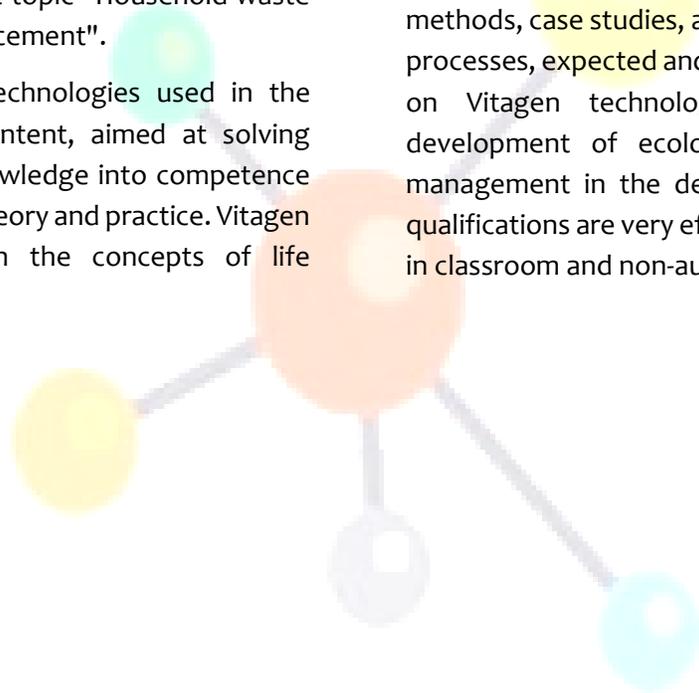
3. acquiring environmental skills and competences in waste management, developing competence;

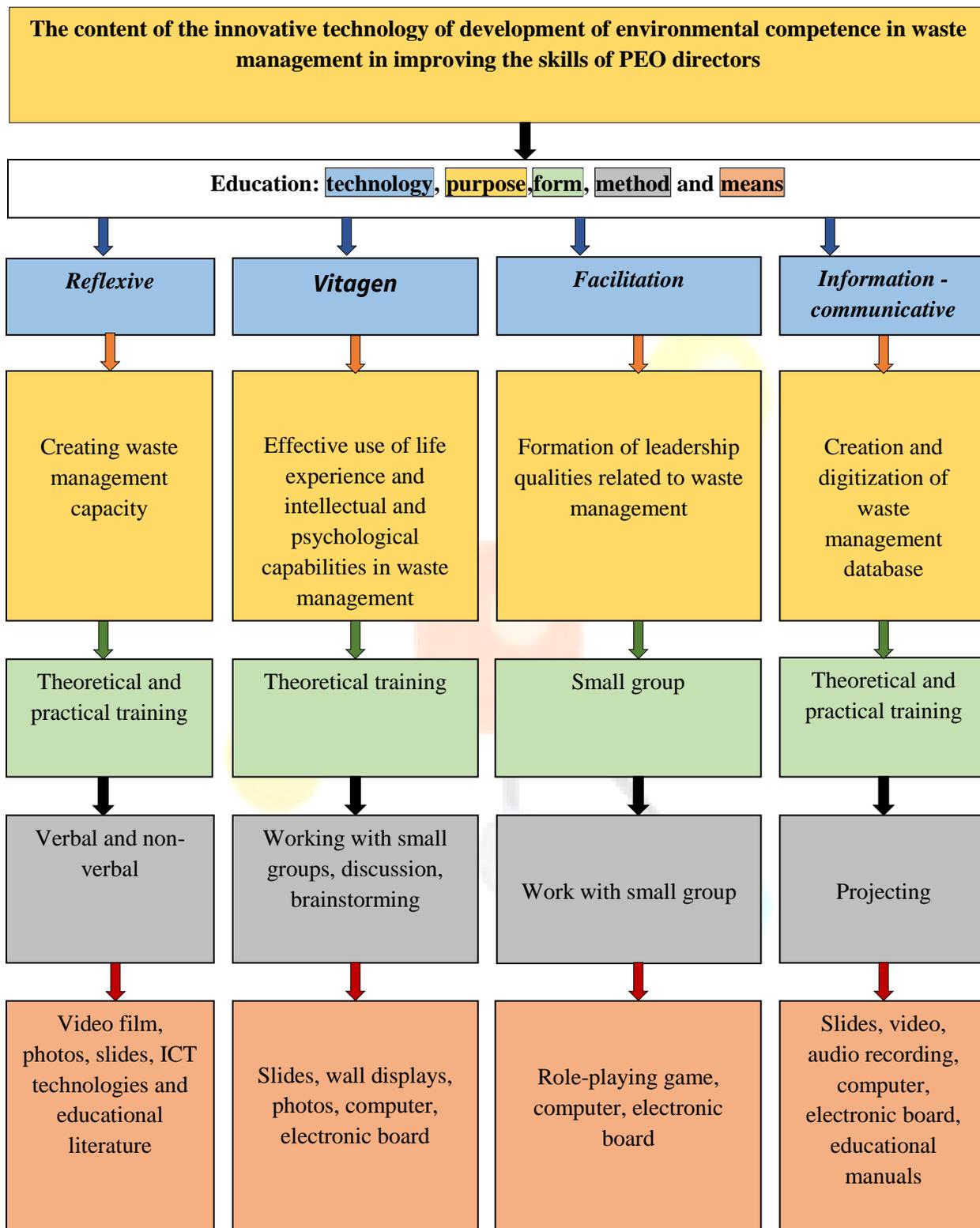
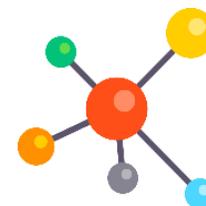
4. Develops the personal environmental competence of PEO directors in creating a safe environment for children in PEO and raising ecological awareness and cultured generation for the society. Below is the development of a practical training lesson based on reflexive technologies on the topic "Household waste sorting, regional and box placement".

Vitagen technologies are technologies used in the selection of educational content, aimed at solving problems in life, turning knowledge into competence through the connection of theory and practice. Vitagen technologies are based on the concepts of life

experience and life experience [1]. These concepts can be seen in the example of the transformation of PEO directors - a source of information that is often heard, identified and widely used in life experience - into a life experience, that is, a vitagen experience.

This method teaches PEO directors to think scientifically based on tasks given on a specific topic, PEO directors to work together with the team and to be able to critically analyze their opinion. It is vitagen technologies that allow virtual support of theoretical and practical knowledge acquired by PEO directors through the use of controversial topics, brainstorming methods, case studies, and boomerang methods in life processes, expected and unexpected situations. Based on Vitagen technology, case trainings in the development of ecological competence in waste management in the development of PEO directors' qualifications are very effective and can be widely used in classroom and non-auditory trainings.







**Pic 1. System of innovative technologies for development of environmental competence in waste management in training of PEO directors**

The knowledge acquired by PEO directors begins to be important for PEO directors after it is formed at the level of value. Because not all acquired knowledge may be valuable for a person. Waste management is one of the axiologically important values and produces a practical result only if PEO directors can use the knowledge. The basis of Vitagen technologies is a three-dimensional holographic approach: Vitagen (life experience), didactic (scientific knowledge) and developmental (additional information sources)[7].

Facilitative technologies - in the process of training, PEO directors are guided to perform educational tasks in small groups, and the facilitator leads to the development of leadership. It is important to train facilitators with creative experience in solving waste management problems. The most basic principle of facilitation technologies is to solve the problem with a group [1].

We used a role-playing game on the topic "Which PEO's waste is useful" in the application of facilitation technologies in the course of the lesson.

For each of the small groups, we set the following three tasks

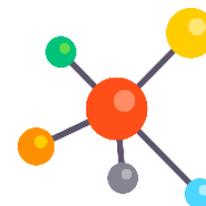
1 task. "Introducing the audience to the need for waste management and national regulations on corporate management in PEO"

2 tasks. Providing and conducting the appropriate handouts for the contest on the topic "Which PEO's waste is useful" in the section of small groups

3 tasks. Presenting the project developed by each small group to the team, discussing it, evaluating it and announcing the results

It has been scientifically confirmed that the fulfillment of these three tasks by PEO directors in the future will lead to the formation of important knowledge, skills and competences for PEO directors in raising the young generation with a careful attitude to the environment and in their education and upbringing in a safe environment. Because the idea of organizing seminars on waste management based on facilitative technologies has been put forward, PEO directors can effectively use such eco-trainings and create an enlightened and spiritual world view on waste management in them, as well as in future expected and unexpected situations. showed the possibility of forming facilitators who could rely on universal and national environmental capacities, environmental knowledge, skills and competences on waste management in finding a good solution.

Application of information and communication technologies to the system of professional development is a necessary part of the modern information world. Computers, CDs, websites, digital learning resources, interactive models, and e-mail are used to facilitate the educational system. The use of information and innovative technologies at the local and private methodical level in the organization of the educational process is important for the development of environmental competence in waste management among PEO directors.



The intellectual preparation of the pedagogue is exchanged through computer programs and is manifested in the form of a pedagogue - manager, consultant. The use of color, image, sound through multimedia tools accelerates the reception of educational information and forms reflection skills in PEO directors. Digital educational programs allow high-quality and accurate control of educational and work activities of PEO directors. continuous application of information and communication technologies to the process of qualification improvement, along with increasing the professional development of PEO directors, also develops creativity.

## CONCLUSIONS

In short, the educational technologies analyzed above are considered to be one of the most optimal and quick solutions to the problems of national environmental education and education related to waste management. Formation of the training module on "Waste Management" in the process of improving the qualifications of the directors of PEO, which operates in the system of corporate management, that is, educational management, is a very urgent environmental problem.

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