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FACTORS CONTRIBUTING TO THE EFFECTIVE TRAINING OF FUTURE PROFESSIONALS OF MARITIME TRASPORT

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Анотація

Висвітлено електронні освітні ресурси у контексті їхнього застосування із метою формування професійних компетентностей майбутніх працівників морського транспорту.

Ключові слова: морські фахівці, професійні компетентності, вища морська освіта.

Abstract

Electronic educational resources have been described in the context of their application in order to build the professional competencies of future maritime transport workers.

Keywords: maritime professionals, professional competencies, higher maritime education.

The building of digital competence of students, in particular future workers of maritime transport, is a relevant, timely and necessary task of scientific search for higher education in Ukraine. The rapid development of technologies, the informatization of maritime transport, require constant experimental research, testing and implementation of the innovative technologies, which results in changes of the training of future maritime transport workers in the building of their professional competencies, with an emphasis on digitizing all processes. Therefore the search and implementation of modern electronic educational resources, potentially suitable for a significant improvement in the quality of training of future maritime professionals in the context of informatization of society, is quite relevant, appropriate and timely task of scientific research.

The objective of our work is to characterize the types of electronic educational resources, to define the functions and directions of use of electronic educational resources in the system of professional training of future maritime transport workers.

Based on the information provided in the professional sources on electronic educational resources and the analysis of individual components of the system of future maritime transport workers' training, we consider that all types of electronic educational resources are suitable for solving the tasks of higher professional training, and we prefer interactive digital resources.

Kherson State Maritime Academy (KSMA) since 2014 has been conducting research and experimental work on the topic "Theoretical and methodological foundations of the implementation of the competency-based approach in the system of level training of maritime industry specialists" according to the order of the Ministry of Education and Science of Ukraine #1148 from the 7th of October in 2014. Since 2015, the LMS MOODLE electronic environment has been introduced into the educational process of KSMA, where a database of all electronic educational resources has been accumulated in order to build the professional competencies of future maritime transport workers [1].

The use of software technologies allows to solve a number of problems of studying:

1) checking the level of knowledge, skills of cadets, their individual abilities and motivations;

2) registration and statistical analysis of learning material indicators;

3) solving the problems of educational material presentation, adaptation of the material according to the levels of complexity, presentation of dynamic illustrations, control tasks, laboratory work, independent tasks of cadets.

There are specially designed virtual tours using the innovative technologies in the field of panoramic shooting, which create the effect of "online presence". Virtual Tour is a 3D tour, a spherical panorama created on the basis of thousands of object photos (an illustrative visualization tool that allows you to organize a virtual voyage onboard a vessel) [2].

In nowadays technical conditions, simple passive video viewing is replaced with 360-degree video viewing, where you can rotate the video and see any angle while watching the movie with the cursor or touch. Such videos are also used in the educational process to train future maritime transport workers to immerse themselves in the professional atmosphere of the vessel.

In the conditions of informatization of professional education, electronic educational resources can be used during almost all stages of the educational process: in the study of theoretical material, in the creation of information and methodological support for the discipline, in the development of e-course, presentation materials, in the development of practical skills, in the verification of competencies by the end of the course.

Creating a quasi-professional environment based on the most innovative technologies and training tools is important to address a number of problematic issues regarding the implementation of a competency-based approach in the process of building the professional competencies of future maritime transport workers. This can be most fully utilized through the organization of a virtual educational space (LMS MOODLE) and the use of modern simulation technologies that are implemented in training complexes with virtual reality facilities [3].

It is also relevant and promising to find and utilize such learning resources in the educational process, which provides a wide range of innovative digital technologies, which leads to the expansion of the educational process potential by increasing the range of learning tools use, and changes the teaching methods of teachers in the building of professional competencies.

The solutions to these issues determine the prospects for further research on the training of future ship engineers for professional activity.

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