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INNOVATIVE APPROACHES TO LEARN ENGLISH BY AVIATION STAFF

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In the modern world, especially in the aviation industry, knowledge of English is necessary for successful professional activity. However, traditional methods of teaching English are not always effective for aviation personal, as they have their own features and require special knowledge and skills.

To achieve the goals of the work, a research methodology was applied, which included an analysis of literary sources and a questionnaire survey of aviation workers. The analysis of literary sources included a review of scientific articles, publications, manuals and other sources related to the approaches to learning aviation English. Databases of scientific articles such as Google Scholar, Web of Science and Scopus were used.

Taking into account the results of the survey and the urgent need, it is necessary to develop and use innovative teaching methods that will help to effectively teach English to aviation staff. Research shows that the use of innovative methods of teaching English can have a positive effect on the quality and safety of aviation services.

One of the innovative ways to teach English is to use technology. For instance, virtual reality can be used to create situations that correspond to real life. This allows aviation workers to gain practical skills in conditions as close to reality as possible. For example, using virtual reality, airline personnel can learn to interact with passengers in various situations, such as emergencies, behavior during flight delays, etc. In addition to virtual reality, you can use other technologies. For example, interactive whiteboards allow you to create visual information materials and interact with them in real time.

Another innovative approach that can be used to teach English to aviation personnel is gamification. Gamification is about integrating learning into game elements to make learning more engaging and motivating. Gamification can also be used to create what happens in air. In particular, placing students in situations where they must communicate in English with air traffic controllers, pilots, and others, helps them learn to communicate effectively in such situations.

Personalized learning is being revolutionized by advanced technologies such as artificial intelligence and machine learning. It offers personalized learning programs for each student that adapt to their individual learning rates and characteristics. The aviation industry can benefit greatly from these advances. Machine learning programs can effectively analyze student responses to identify their strengths and weaknesses, adjusting assignments to focus on the latter. In addition, these programs can assess the level of language proficiency and suggest relevant materials, which increases the effectiveness of learning and accelerates progress.

Conclusion

Increasing the professional competence of aviation workers through innovative methods and technologies has become mandatory. Virtual reality, artificial intelligence, machine learning and gamification have become advanced technologies that can enhance the knowledge and practical experience of aviation personnel. Using these methods, training can be more effective, and

employees can be better prepared to solve problems that arise during work. Therefore, it is extremely important to integrate innovative approaches and technologies into training programs for aviation workers to increase their overall competence.

References:

1.   Abdallah, S., & Sahawneh, S. (2020). Integrating Virtual Reality Technologies in Teaching English for Specific Purposes: The Case of Aviation English.

2.   International Civil Aviation Organization. (2010). Manual on the Implementation of ICAO Language Proficiency Requirements. Retrieved.

3.   International Civil Aviation Organization. (2006). ICAO Circular 323: Language proficiency requirements.

4.   FAA Advisory Circular AC 60-28B - "English Language Skill Standards Required by 14 CFR Part 61 and 63"

5.   Nemlii L. (2020) Aviation English Training for Aviation Personnel in Ukraine // Science and Education a New Dimension. Philology, VIII (70), Issue: 235, 2020 Sept. https://seanewdim.com/wp-content/uploads/2021/05/Aviation-English-Training-for-Aviation-Personnel-in-Ukraine-L.-Nemlii.pdf