

Reform and Practice of Teaching in the Course of Airport Operations and Management for Civil Aviation Services

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Keywords: Airport Operation and Management; Teaching Reform Practice; Civil Aviation Service; Practical Teaching; Talent Cultivation

Abstract: In recent years, the development of civil aviation in China has been rapid, and the demand for airport operation and management professionals has increased. However, the current teaching mode of the course "Airport Operation and Management" cannot fully meet the needs of the industry. In order to improve the teaching quality and cultivate high-quality talents in the field of civil aviation, the author carried out teaching reform practice of the course "Airport Operation and Management". The practice focuses on the construction of teaching resources, the reform of teaching methods, the improvement of practical teaching, and the exploration of innovative talent cultivation mode. The results show that the teaching reform practice has effectively improved the students' learning enthusiasm, promoted the development of their practical ability, and achieved good teaching effects.

1. Introduction

With the rapid development of China's economy and society, the aviation industry has entered a period of rapid development, and the demand for airport operation and management professionals has increased. The course "Airport Operation and Management" is an important course for cultivating talents in the field of civil aviation. However, the current teaching mode of the course cannot fully meet the needs of the industry. Therefore, it is necessary to carry out teaching reform practice of the course to improve the teaching quality and cultivate high-quality talents in the field of civil aviation.

1) Definition of key terms

Airport operation and management refer to the planning, organizing, coordinating, and controlling of all activities related to the operation of an airport. The course "Airport Operation and Management" for civil aviation service focuses on providing students with the knowledge and skills required to manage airports effectively. The course covers a wide range of topics, including airport planning, design, and construction, airport operations, airport safety and security, airport marketing, and airport financial management. The course aims to prepare students for the challenges they will face in the real world by providing them with both theoretical and practical knowledge of airport management.

Teaching reform practice refers to the process of revising or updating traditional teaching methods to improve the quality of education and enhance the learning experience of students. In the context of the course "Airport Operation and Management" for civil aviation service, teaching reform practice involves introducing new teaching methods and strategies to provide students with a more engaging and practical learning experience. The teaching reform practice may involve introducing interactive lectures, organizing industry visits, using case studies and simulations, promoting teamwork and collaboration through group projects, and inviting guest lecturers to provide students with insights from industry experts. The aim of the teaching reform practice is to enhance the effectiveness of the course by providing students with both theoretical and practical knowledge of airport management.

Civil Aviation Service refers to the part of the aviation industry that provides air transportation services for the general public, as opposed to military or government services. The civil aviation service includes commercial airlines, private aircraft operators, air traffic control organizations, airport operators, and other organizations that provide support services to the aviation industry. The course "Airport Operation and Management" for civil aviation service focuses on providing students with the knowledge and skills required to manage airports effectively in the context of the civil aviation service. The course covers a wide range of topics related to the management of airports,

including airport planning, design, and construction, airport operations, safety and security, marketing, and financial management, among others. The course aims to prepare students for careers in the civil aviation service by providing them with a comprehensive understanding of the airport management field.

Practical teaching and talent cultivation refer to the process of equipping students with the knowledge, skills, and abilities required to excel in their chosen careers. In the course "Airport Operation and Management" for civil aviation service, practical teaching and talent cultivation involve providing students with hands-on experience and real-world knowledge of airport management. The practical teaching methods may include industry visits, case studies, simulations, teamwork and collaboration through group projects, and guest lectures from industry experts. The aim of practical teaching and talent cultivation is to enable students to develop their critical thinking, problem-solving, and decision-making abilities and to apply these skills to real-world scenarios. Through practical teaching and talent cultivation, the course aims to produce well-rounded professionals who are capable of managing airports effectively and contributing to the development of the civil aviation service industry.

2. Reforms Necessary in the Teaching of the Course ‘Airport Operation and Management’ for Civil Aviation Service.

2.1 Construction of Teaching Resources

The first step of teaching reform practice is to construct teaching resources. In the past, the course "Airport Operation and Management" mainly relied on textbooks and traditional teaching methods. However, this teaching mode cannot fully meet the needs of the industry. In order to improve the teaching quality, the author has established a teaching team composed of industry experts, scholars, and experienced teachers. The teaching team is responsible for the design and construction of teaching resources.

A large number of teaching materials, including textbooks, reference books, teaching cases, and videos on the course of “Airport operation and management” is collected. Based on these materials, a set of teaching resources that integrate theory with practice is developed and measures to ensure that this information is in line with the development trend of the industry are put in place.

The industry experts are then invited to participate in the course construction. They not only provide the latest industry information but also share their practical experience and insights with students.

The teaching management system that includes the construction and management of teaching resources, quality control, and feedback and improvement mechanisms is later developed.

2.2 Reforms of existing Teaching Methods

The traditional teaching method of the course "Airport Operation and Management" is mainly based on lectures. This teaching mode cannot fully meet the needs of the industry. In order to improve the teaching quality, there is a need to carry out teaching reform practices by adopting diversified teaching methods.

The use of case analysis and discussion to teach the course. By analyzing and discussing real cases, students can not only understand the theoretical knowledge but also improve their practical ability.

Adoption of interactive teaching methods, such as group discussions, role-playing, and simulation exercises, to improve students' learning enthusiasm and participation.

Another method to improve on the pre-existing traditional teaching methods can also be combining online and offline teaching, using multimedia teaching methods and online platforms to create an interactive and immersive teaching environment.

2.3 Improvement of Practical Teaching

The course "Airport Operation and Management" is a professional course that requires students to have practical skills. However, in the past, practical teaching was not emphasized, and students lacked

practical experience. In order to improve the practical teaching, teaching reform practices should be carried out in the following aspects.

One of the key components of the practical teaching system is the inclusion of field trips. By taking students on field trips to actual airports, we enable them to observe and learn about the operation and management of airports firsthand. This provides students with an opportunity to apply their theoretical knowledge in a practical setting and gain a deeper understanding of airport operations. Through the field trips, students can also interact with industry professionals, ask questions, and gain insights into the latest trends and developments in the field.

Another important component of the practical teaching system is simulation exercises. A virtual environment where students can simulate the operation and management of airports is important as it provides students with a safe and controlled setting to practice their skills and apply their knowledge in a realistic environment. The simulation exercises also enable students to experiment with different scenarios and test the outcomes, which can effectively improve their practical ability.

To further enhance the practical teaching system, industry experts are invited to participate in the practical teaching process. Industry experts bring a wealth of knowledge and experience to the classroom, and they can share their insights and best practices with the students. Moreover, the students should be provided with opportunities to participate in the actual operation and management of airports. By working alongside industry professionals, students can gain hands-on experience and develop their practical skills in a real-world setting.

Finally, there is the establishment of a practical teaching assessment system that evaluates students' practical ability based on their performance in field trips, simulation exercises, and on-the-job training. The assessment system is designed to measure the students' ability to apply their theoretical knowledge in practical situations, make informed decisions, and work collaboratively with industry professionals. The practical teaching assessment system ensures that students are well-prepared for the challenges they will face in their future careers in the civil aviation service industry.

2.4 Exploration of Innovative Talent Cultivation Mode

The course "Airport Operation and Management" is not only a professional course but also a practical course. Therefore, it is necessary to explore an innovative talent cultivation mode that integrates theory with practice.

With the establishment of a talent cultivation system that includes theoretical teaching, practical teaching, and innovative projects, it is possible to lay a solid foundation for students as practical teaching improves their practical ability, and innovative projects provide opportunities for them to apply their knowledge and skills.

The establishment of an industry-university-research cooperation mechanism, which integrates the resources of the aviation industry, universities, and research institutes, to promote the cultivation of innovative talents in the field of civil aviation is also critical in ensuring the reforms in the civil aviation industry are done properly.

There is also an establishment of a mentor system, in which each student is assigned a mentor who is an industry expert or an experienced teacher. The mentor provides guidance and support for the students' learning, career planning, and personal growth.

2.5 Results of the measures taken

The teaching reform practice of the course "Airport Operation and Management" has achieved good teaching effects.

The students' learning enthusiasm has been greatly improved. The diversified teaching methods, interactive teaching methods, and practical teaching methods have stimulated their interest in learning and improved their learning efficiency.

The students' practical ability has also been effectively improved. The practical teaching system, including field trips, simulation exercises, and on-the-job training, has provided them with opportunities to apply their knowledge and skills, and to improve their practical ability.

The students' innovation and entrepreneurship ability has been cultivated. The innovative talent cultivation mode, which integrates theory with practice and promotes industry-university-research

cooperation, has provided them with opportunities to participate in innovative projects and to develop their innovation and entrepreneurship ability.

3. Conclusion

In conclusion, the teaching reform practice of the course "Airport Operation and Management" has effectively improved the teaching quality and cultivated high-quality talents in the field of civil aviation. The construction of teaching resources, the reform of teaching methods, the improvement of practical teaching, and the exploration of innovative talent cultivation mode are the key factors in the teaching reform practice. The results of the practice show that the diversified teaching methods, interactive teaching methods, and practical teaching methods have greatly improved students' learning enthusiasm and practical ability. The innovative talent cultivation mode has provided them with opportunities to apply their knowledge and skills and to develop their innovation and entrepreneurship ability.

Future work includes further exploration of the innovative talent cultivation mode, continuous improvement of the teaching resources, and continuous optimization of the teaching methods.

References

- [1] Duan, J., & Fu, X. (2019). Teaching reform of the civil aviation management course in the era of big data. *Journal of Higher Education and Vocational Education*, (6), 167-168.
- [2] Zhao, H., & Liu, X. (2018). Practice and exploration of the teaching reform of civil aviation service management courses. *Research in Teaching*, (11), 62-63.
- [3] Zhang, S., & Jiang, H. (2019). The construction of practical teaching system for civil aviation service management. *Vocational and Technical Education*, (19), 78-79.
- [4] Wang, X., & Wang, C. (2018). The practical teaching mode of civil aviation service management course. *Journal of Liaoning Technical University (Social Science Edition)*, (3), 28-30.
- [5] Yu, S., & Liu, Y. (2020). The application of simulation teaching method in the civil aviation service management course. *Journal of Xingtai University*, (5), 70-72.