

# Research on the construction of teaching quality monitoring system of private higher vocational education based on data platform

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**Abstract:** Private higher vocational education is an important supplement to China's higher education, but the quality of education and teaching in private higher vocational colleges has always been a topic of concern to the society and an important factor affecting the development of private higher vocational colleges. Talent training work status data collection and management platform (hereinafter referred to as the data platform) data is the normal collection of the teaching and management functional departments of colleges and universities, the data has the key characteristics of original and immediacy, and can directly reflect the status quo, help analyze the development trend, is an important basis for higher vocational colleges to master the status of talent training work and carry out internal diagnosis. This provides a solid foundation for us to establish a more effective teaching quality assurance system. Therefore, the construction of teaching quality assurance system based on data platform is very important for higher vocational colleges to improve the level of education and teaching. The data collected in the data platform includes the information of teachers, the basic arrangement of teaching conditions, the allocation of educational resources and other aspects, which can comprehensively understand the current situation of education in schools and provide reliable data support for the establishment of teaching quality assurance system. Through careful data analysis, we can determine the connotation of teaching quality assurance system construction according to the index items of the data platform, clarify the improvement direction of teaching quality in higher vocational colleges, and put forward effective optimization measures to realize the continuous improvement of education and teaching level.

**Key words:** Civilian-run higher vocational colleges; Data platform; Teaching quality

## 1. Data platform is the need to promote the development of higher vocational education

The construction of data platform in higher vocational colleges represents the frontier of information technology and modern management in the field of education, has far-reaching significance in many aspects, and plays a positive role in promoting the construction and development of higher vocational colleges and the improvement of the education system, especially for the private higher vocational colleges under construction and development.

1. Improve teaching evaluation: Data platform provides strong support for teaching evaluation. Teaching evaluation plays an important role in higher vocational colleges, which helps to find problems, improve the quality of education, and provide the improvement direction for schools. The construction of data platform quantifies the key elements and provides a scientific management tool for standardizing the running and connotation construction of private vocational colleges. With the help of the platform, the talent training status of the school can be recorded and analyzed, and the scientific evaluation of education quality can be realized, which provides important data support for the school. This not only helps private higher vocational colleges to better understand their own education level, but also provides the school with the direction of improvement and optimization, which helps to improve the quality of education and train more competitive graduates.

2. Improve the management level: The data platform helps to improve the management level of higher vocational colleges and education administrative departments at all levels. The platform reflects the basic conditions of higher vocational colleges and the status of personnel training and other relevant information, and provides decision-making data for educational administrative agencies. The information on the platform is authentic, timely, original, dynamic and comparable, which helps to formulate policy basis. By actively promoting the construction and use of the data collection platform, private higher vocational colleges can improve the level of institutionalization, standardization, informatization and standardization of teaching management.

3. Promoting teaching reform: The construction of data platform has promoted the deepening of education and teaching reform. The platform records the status of talent training in various periods of higher vocational colleges, forming the development track of the school's talent training work. Through in-depth analysis of the platform data, private higher vocational colleges can clarify their own advantages and problems, further play their own characteristics, and solve the existing weak links. The platform also has a guiding function, which can guide schools to strengthen the construction of teaching teams, professional construction, curriculum reform and school-enterprise cooperation, so as to promote the in-depth reform of education and teaching. Private higher vocational schools can carry out more targeted reforms and innovations, improve the quality of education and teaching, and cultivate talents who better meet the needs of society.

The construction of data platform in higher vocational colleges is an important measure of modern education management, which has far-reaching influence on education evaluation, management level improvement and education and teaching reform. Private higher vocational colleges should actively promote the construction of data platform, make good use of this platform, realize the continuous improvement of education and teaching quality, and promote the sustainable development of the school.

## 2. Feasibility analysis of quality monitoring system construction based on data platform

The construction of teaching quality assurance system in higher vocational colleges is an important task related to the quality of higher

education and the development of the school, and the guarantee of education and teaching quality is the lifeline of the development of private vocational colleges. Through the key characteristics and functions of the data platform, we can deeply understand the importance of the data platform.

1. To construct the teaching quality assurance system of higher vocational colleges, it is necessary to use the index items of data platform to clarify the connotation. The design of this index system is comprehensive and systematic, including many key factors, from the basic situation of the school to the level of teacher education, school-enterprise cooperation, curriculum Settings, practical teaching and other aspects are involved. This comprehensiveness provides a rich dimension for the assessment of teaching quality, ensuring that the assessment work is more scientific and targeted. Through the index project of the data platform, schools can clarify the connotation of the construction of the teaching quality assurance system, focus the evaluation on key areas, and provide a clear direction for improving the quality of education.

2. It is crucial to strengthen the organizational leadership of data platform construction. Administrators of private higher vocational colleges need to deeply understand the importance of data platform construction for teaching quality assurance system, and attach great importance to it from the perspective of school reform and development. It is suggested to establish a clear organizational system to ensure that the division of responsibilities of each department is clear, and from the head to the full-time department should participate in the management and promotion of the construction of data platform. Only by strengthening organizational leadership can higher vocational colleges ensure the effective operation of the data platform and provide solid support for the construction of the teaching quality assurance system.

3. The data collection of the data platform is original, objective and dynamic. A comprehensive centralized collection is carried out once a year to ensure the authenticity and reliability of data. The data are filled in by the parties themselves, which makes the data more convincing. At the same time, the data are updated annually, which ensures the continuity of the data and provides strong support for longitudinal comparative analysis. Such data collection method enables higher vocational colleges to understand the real situation of teaching in time, which is helpful to better evaluate and improve teaching quality.

### **3. The construction of teaching quality assurance system based on data platform**

According to the spirit of the Notice of the Ministry of Education on issuing and distributing the Evaluation Plan of Talent Training in Higher Vocational Colleges, through the analysis of the data collection platform of Talent Training in higher vocational Colleges, and combined with the actual situation of schools, the teaching quality assurance system of schools is constructed. It is an extremely complex and urgent task to construct the teaching quality guarantee system in private vocational colleges, which involves many elements and requires close cooperation of the whole school. In order to successfully implement this system, we need to pay attention to several key points to ensure that higher vocational colleges can make full use of the data platform and continuously improve the quality of teaching.

#### **1. Define the platform indicators and determine the connotation of construction**

The construction of the teaching quality assurance system of private higher vocational colleges needs to clarify the connotation on the basis of the data platform. This means that we need to deeply study the index items of the data platform and correspond them to the evaluation indicators of the teaching quality assurance system. This correspondence can ensure that the evaluation and management work is more scientific and targeted. For example, if the data platform contains items related to teaching management, we should match these items with the evaluation indicators of teaching management to ensure that the work of teaching management is consistent with the teaching quality assurance system.

#### **2. Improve data efficiency to ensure the quality of the platform**

It is crucial to strengthen the organizational leadership of data platform construction. In private higher vocational colleges, the school management should realize the importance of data platform construction for teaching quality assurance system, and actively participate in it. It is suggested to establish a clear organizational structure to ensure that the division of responsibilities of each department is clear. From the school leaders to the full-time departments, all should actively participate in and promote the construction of data platform. Only the strong support of senior leaders and the active cooperation of all staff can ensure the success of the platform construction.

#### **3. Establish regular and immediate analysis and comparison system**

Establish a system of regular and immediate data analysis and comparison to better understand school developments and problems. Schools can regularly compare historical and current data, as well as conduct comparative research on their own data with other higher vocational colleges. Through this kind of analysis and comparison, schools can better understand their own strengths and weaknesses, find the direction of improvement, and make corresponding rectification plans. The effectiveness and efficiency of the data platform can help the private higher vocational colleges to detect potential problems in time and take measures to solve them through in-depth analysis of the status data.

#### **4. Establish the supervision process**

In the construction of the teaching quality assurance system of private higher vocational colleges, the establishment of clear supervision process plays a crucial role. This monitoring process is based on the data platform, which requires relevant personnel to provide real, objective and detailed data, and at the same time, these data are open to the monitoring subject, which realizes the transparency and sharing of information. The monitoring subjects include faculty members at different levels. Finally, the state data statistics department is responsible for comprehensive summary and analysis to form a university-wide teaching quality evaluation report, which provides a clear feedback and

improvement guidance for private higher vocational colleges. The monitoring body needs to conduct detailed and in-depth analysis and evaluation of the data, including standard analysis, vertical comparison analysis and horizontal comparison analysis, which is helpful to find problems, sum up experience, improve the quality of talent training, and finally form a characteristic education model. The establishment of this monitoring process will ensure the effective operation of the teaching quality assurance system, and provide strong support for the improvement of education quality in private higher vocational colleges.

#### 5. Establish an exchange and feedback system

Establishing a communication and feedback system is essential to ensure the effective performance of the data platform. The management department of data platform of private higher vocational colleges should actively participate in exchange seminars at all levels to learn advanced experience of other schools and apply it to their own work. At the same time, transparency and openness should be maintained, and information should be timely fed back to the corresponding departments. Such timely transmission and sharing of information can promote the active participation and collaboration of all staff, so as to better promote the improvement of teaching quality. The construction of teaching quality assurance system in private higher vocational colleges is a complex but urgent task, which needs the close cooperation and joint efforts of the whole school. By making full use of the data platform, it can better achieve the improvement of teaching quality and ensure the continuous development of the school and its place in higher education.

### 4. Summary

The construction of education and teaching quality monitoring system of private higher vocational colleges based on data platform is a challenging and persistent task. It needs to be based on the data platform, and needs to be constantly improved and adjusted to realize the monitoring of education and teaching quality. In this process, it is necessary to do a good job of collecting the original data of the data platform every year to ensure the effectiveness and integrity of the data. The data in the data platform covers many aspects of information, including the basic situation of the school, the team of teachers, teaching resources, students and so on. All this information is an important part of the construction of education and teaching quality assurance system. If the data is incomplete, it will affect the effectiveness of the entire system.

The construction of education and teaching quality monitoring system of private higher vocational colleges based on data platform is a long-term and complex task, which needs to constantly improve the effectiveness and integrity of data collection on data platform to ensure the quality of data. Only by ensuring the accuracy and integrity of the data, can it provide reliable information support for the education and teaching quality assurance system of private higher vocational colleges, and promote the continuous development of private higher vocational colleges towards a higher level. Therefore, we must recognize the importance of data and take measures to ensure the quality of data in order to achieve continuous improvement and enhancement of education and teaching. This will help private higher vocational colleges better adapt to the needs of modern education and make greater contributions to cultivating more outstanding talents.

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