

# The Reform of Teaching Methods for School-Enterprise Collaborative Education in Vocational Colleges under the Modern Apprenticeship System

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**Abstract:** In the era of knowledge economy in the 21st century, the speed of technological innovation and industrial change is accelerating, and the demand for talents has also undergone profound changes. The traditional personnel training model cannot meet the needs of social development, which requires us to reform the teaching method of school-enterprise cooperative education in higher vocational colleges under the modern apprenticeship system. This paper will discuss the reform of the teaching method of school-enterprise cooperative education in higher vocational colleges under the modern apprenticeship system in order to provide some useful references for the development of higher vocational education.

**Keywords:** Modern apprenticeship system; Collaborative education; Teaching method

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## 1. The Significance of Modern Apprenticeship System

Modern apprenticeship is a kind of education model that combines school education with enterprise practice, which makes educational resources better match with industry demand, so as to improve education quality and students' employment competitiveness. In this way, students can learn and accumulate experience in the actual working environment, adapt to the workplace in advance, improve vocational skills and prepare for a smooth entry into the workplace in the future. Modern apprenticeship system emphasizes students' practical ability and innovative spirit, which helps to cultivate talents who are more in line with the needs of society. At the same time, enterprises can also cooperate with schools to understand the development trend of the industry, adjust personnel training programs to improve the overall quality of employees. Under the current economic situation, the employment pressure of college students is great. Modern apprenticeship system helps students fit into working life in advance and reduce the difficulty of employment by providing internships and employment opportunities. At the same time, enterprises can also select and train talents in this way to reduce recruitment costs. Modern apprenticeship system can help businesses pass on their skills and culture to ensure that they grow without losing their core competencies. At the same time, it also provides a platform for students to understand and learn traditional skills, which helps to inherit and promote excellent traditional culture. Modern apprenticeship system can help enterprises solve the problem of talent shortage and improve the skill level of employees, so as to improve the competitiveness of enterprises. At the same time, the cooperation between enterprises and schools can also help expand the network resources of enterprises and create more opportunities for the long-term development of enterprises.

## 2. The Importance of the Reform of Teaching Methods for School-enterprise Collaborative Education in Higher Vocational Colleges

### 2.1 To meet the needs of society and improve the quality of personnel training

The reform of school-enterprise collaborative education teaching method is an important part of the education and teaching reform of higher vocational colleges. The reform of school-enterprise collaborative education teaching method can make higher vocational colleges more closely contact with enterprises, better understand the needs of enterprises for talents, and thus adjust the professional setting, curriculum setting and teaching content to better meet the needs of society. At the same time, the reform of school-enterprise collaborative education teaching method can improve students' practical ability and innovation ability, so that students can better adapt to the working environment and post requirements of enterprises, so as to improve the quality of talent training.

## **2.2 To promote the integration of industry, universities and research institutes and enhance the capacity for scientific and technological innovation**

The reform of school-enterprise collaborative education teaching method can promote the combination of industry, universities and research institutes, so that enterprises, universities and scientific research institutions can form an organic whole and jointly promote scientific and technological innovation. Enterprises can provide practical teaching bases, practical training programs and technical support for universities, universities can provide technological research and development and personnel training support for enterprises, and scientific research institutions can provide technological innovation support for enterprises and universities. In this way, the scientific and technological innovation ability of the entire industry can be improved. The reform of school-enterprise collaborative education teaching method is an innovative education model, which can promote the close combination of industry, universities and research institutes, so that enterprises, universities and scientific research institutions form an organic whole to jointly promote scientific and technological innovation.

## **2.3 To optimize the teaching staff and improve the level of education and teaching**

The reform of school-enterprise cooperative teaching method can help higher vocational colleges optimize the teaching staff and improve the level of education and teaching. Through cooperation with enterprises, schools can attract enterprise experts to participate in education and teaching work, so that teachers can better understand the needs of enterprises and post requirements, so as to improve the level of education and teaching. At the same time, the reform of school-enterprise collaborative education teaching method can provide more practical opportunities for teachers and improve their practical ability and teaching level. The reform of school-enterprise cooperative teaching method is of great significance in higher vocational colleges, which can help optimize the teaching staff and improve the level of education and teaching. By working closely with enterprises, schools can attract enterprise experts to participate in education and teaching work, so that teachers can better understand the needs of enterprises and job requirements. In this way, teachers can better combine practical work with teaching, thus improving the quality of education and teaching.

## **2.4 To expand employment channels and improve employment quality**

The reform of school-enterprise cooperative education teaching method can help vocational colleges to expand employment channels and improve employment quality. Through close cooperation with enterprises, the school can understand the recruitment needs of enterprises, so as to adjust the employment guidance and services of graduates, so that graduates can better meet the needs of enterprises. At the same time, the reform of school-enterprise cooperative education teaching method can improve students' practical ability and employment competitiveness, so as to improve employment quality. The reform of school-enterprise cooperative education teaching method in higher vocational colleges is of great practical significance and far-reaching historical significance.

# **3. The Reform of Teaching Methods for School-Enterprise Collaborative Education in Vocational Colleges under the Modern Apprenticeship System**

## **3.1 The teaching method reform of school-enterprise collaborative education needs to improve the quality of teachers**

Higher vocational teachers are the key to collaborative education between schools and enterprises. The quality of teachers directly affects the quality and effect of apprenticeship system. Therefore, higher vocational colleges need to strengthen the selection, training and assessment of teachers, improve teachers' professional quality and education and teaching ability, so that they can meet the needs of enterprises and provide students with high-quality education and teaching services. Under the modern apprenticeship system, the reform of the teaching method of school-enterprise collaborative education in higher vocational colleges is an important issue. With the development of economy and the progress of society, the importance of vocational education has become increasingly prominent, and the school-enterprise collaborative education model has become an important direction for the development of higher vocational education.

Improving the quality of teachers is a multi-faceted process, which needs to be improved and enhanced from many angles. ongoing

professional development opportunities should be provided for teachers, including participation in corporate seminars, training courses and educational programs. It will help teachers update their knowledge, improve their teaching skills and learn about new educational methods and technologies. An effective evaluation system should be established to assess teachers' performance and progress. It can be achieved through regular student assessments, peer assessments and self-assessments. Constructive feedback should be provided to help teachers understand their strengths and areas for improvement. Individual professional development plans should be developed for teachers to support their professional development. It can include providing teachers with additional training, guidance and resources to help them improve their teaching skills and knowledge. Partnerships should be established to encourage collaboration and exchange between school teachers and corporate mentors so that they can share resources, experiences and ideas. It can be done by teacher associations, professional development groups, and other teacher organizations.

### **3.2 The teaching method reform of school-enterprise collaborative education needs to strengthen practical teaching**

Practice is the only standard to test truth. Higher vocational colleges should make full use of enterprise resources, strengthen cooperation with enterprises, combine theoretical knowledge with practical operation, and improve students' practical ability. At the same time, higher vocational colleges should also strengthen the construction of experimental training rooms, practice bases and other facilities to provide students with a good practice environment. The reform of the teaching method of school-enterprise collaborative education needs to carry out in-depth exploration and practice in practical teaching, change the traditional teaching method and adhere to the principle of "students as the main body and teachers as the leader" through the integration of the discussion, heuristic and inquiry teaching methods of modern apprenticeship system under the guidance of the work process. It not only pays attention to teaching scientific and cultural knowledge, but also pays attention to cultivating students' scientific exploration consciousness and innovative spirit, improve students' sustainable development ability and communication ability in the future career field, so as to cultivate more application-oriented talents with practical operation ability and innovative spirit. Practical teaching can not only improve students' practical operation ability and problem-solving ability, but also help them better apply theoretical knowledge to practical work, so as to improve the overall employment competitiveness.

According to the development and trend of industry technology, with enterprise workshops as the carrier, schools can jointly develop a curriculum system with enterprises, shape the professional atmosphere in campus practical classroom under the integration of school education and industrial development and school and enterprise concepts, and integrate projects and tasks in actual work of enterprises into the curriculum, so that students can have access to the actual working environment during the learning process to improve students' practical ability. At the same time, the school and enterprises jointly establish a practical teaching base to provide students with internship, practical training, employment and other practical opportunities, so that students can learn and grow in practical work. The school invites enterprise experts to serve as mentors for students, guide students in practice teaching, help students understand industry dynamics and improve students' practical ability and employment competitiveness. The school and enterprises jointly carry out internship training projects, so that students can learn and grow in practical work and improve students' practical ability and employment competitiveness.

### **3.3 The teaching method reform of school-enterprise collaborative education needs to innovate the curriculum system**

Higher vocational colleges should adjust the curriculum setting and optimize the curriculum system according to the industrial structure and the needs of enterprises, so as to make it more in line with the needs of society and enterprises. At the same time, higher vocational colleges should also strengthen the combination of course content and practical operation to improve the practicability and pertinence of the course.

A curriculum system of "integrated diversity and progressive ability" should be built. The focus of the modern apprenticeship system is to take majors as the pilots, take the apprenticeship system as the carrier, and jointly carry out school-enterprise cooperation in depth with industry associations and enterprises, so that the two subjects of the school and enterprise become the designer, demonstrator and implementer of the "Post-Course-Competition-Certificate" integration course. Based on the characteristics of integrating the comprehensiveness of content of "Post-Course-Competition-Certificate" integration course and the diversification of skill requirements, the course construction of "Post-Course-Competition-Certificate" in modern apprenticeship system should maintain the independent setting of "Post-Course-Competition-Certificate" course, regard post ability demand as the main source of course content and take curriculum teaching reform as the main starting point of teachers' teaching reform. Skills competition is regarded as the internal motivation to promote students' learning, and certificate level examination is regarded as an important guidance to guide

teachers'teaching.It shows the characteristics of independence and type,and strengthens students'basic employment ability by taking job demand and industry standard as the guidance.

The focus of school-enterprise collaborative education is to take advantage of the complementary advantages of the two sides to play the teaching responsibilities,do a good job in the implementation of teaching reform with reasonable division of labor.In this process,the responsibilities of higher vocational colleges in the top-level design focuses on the provision of personnel training and supply,scientific research innovation and technical services.Enterprises provides practice bases,technical support,training resources,technical masters and employment channels,etc.to achieve deep teaching reform through"co-construction,sharing and co-governance".

### **3.4 The teaching method reform of school-enterprise collaborative education needs to strengthen the construction of evaluation system**

Higher vocational colleges should establish a diversified evaluation system,which should not only pay attention to students'theoretical knowledge,but also pay attention to students'practical ability and innovative spirit.At the same time,higher vocational colleges should also strengthen the communication with enterprises to understand the needs of enterprises for talents,so that the evaluation system can be more in line with the actual needs.It is a complicated and important task to reform the teaching method of school-enterprise collaborative education in higher vocational colleges under the modern apprenticeship system.Higher vocational colleges need to reform and innovate from many aspects in order to improve the quality of talent training and provide more high-quality talents for society and enterprises.In the field of education,reforming the teaching method of school-enterprise collaborative education has become a trend.

A diversified evaluation system should be established,which includes students'academic performance,practical ability,innovation ability,teamwork ability and other aspects and aims to comprehensively evaluate the development of students.The multi-dimensional evaluation of students is helpful to find the advantages and disadvantages of students and provides the basis for teaching reform.The process evaluation should be strengthened,which is the evaluation for students'learning attitude,learning method and learning outcome in the learning process.Through the evaluation of students'learning process,we can find students'problems in the learning process to provide basis for teaching reform.Practical evaluation is to evaluate the performance of students in practical activities.Through the evaluation of students'practical ability,we can find students'practical ability to provide basis for teaching reform.A tripartite evaluation mechanism of students,teachers and enterprises should be established.The tripartite evaluation mechanism of students,teachers and enterprises refers to the process of students,teachers and enterprises participating in the evaluation together.The establishment of a tripartite evaluation mechanism can make full use of the resources of all parties to improve the accuracy and effectiveness of the evaluation.

## **4. Conclusion**

It is a complicated and urgent task to reform the teaching method of school-enterprise collaborative education in higher vocational colleges under the modern apprenticeship system.It is necessary to explore and improve continuously in practice in order to realize the seamless connection between higher vocational education and the needs of enterprises and cultivate more high-quality technical talents who meet the needs of the industry.In this process,we need the government,enterprises,schools and all sectors of society to work together and form a joint force to inject new vitality into the development of higher vocational education in our country.At the same time,we should also pay attention to the development trend of higher vocational education under the apprenticeship system in order to adapt to the needs of The Times and industrial upgrading and contribute to the construction of a modern vocational education system.

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