

Exploring the Reform Path of Modern Vocational Education Based on the Integration of Industry and Education

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Abstract: The integration of industry and education is the overall lever for deepening the reform of modern vocational education in the new era, and it is also an important deployment for the development of modern vocational education in the country. Therefore, based on the integration of industry and education leading the deepening reform of modern vocational education, it can help vocational colleges clarify their own positioning in development and innovation, and in the process of adapting to the development trend of the digital age, build regional characteristic education chains through school enterprise cooperation platforms, and create a new mechanism for long-term talent cultivation. This article focuses on the connotation of the integration of industry and education, and specifically elaborates on the practical problems encountered in the reform process of modern vocational education under the new situation. Therefore, it is suggested that the government, vocational colleges and other entities strengthen multi-party cooperation and actively explore the practical path of deepening the integration of industry and education.

Keywords: Integration of industry and education; Modern vocational education; Reform Path

The Opinion on Deepening the Reform of Modern Vocational Education System Construction clearly points out the specific direction and path for vocational colleges to continuously deepen the integration of industry and education under the new situation. Integration of industry and education, that is, further deepening of school enterprise cooperation, integrating the latest industry concepts and technical standards into the modern vocational education reform system, forming a close relationship between teaching and industry, and thus constructing a new model of school enterprise collaborative education. Deepening the integration of industry and education helps to highlight students' subjectivity and stimulate their innovation and creativity. However, at present, the deepening effectiveness of the integration of industry and education in vocational colleges is not obvious, and problems such as integration but incompatibility and integration but lack of cooperation have hindered the high-quality development of modern vocational education. Therefore, the reform path of vocational colleges based on the integration of industry and education under the new situation still needs further exploration.

I. The Problems Faced in the Process of Modern Vocational Education Reform from the Perspective of Industry Education Integration

1. Lack of smooth communication mechanism

Building a scientific, systematic, and comprehensive communication mechanism based on modern information technology is an important guarantee for deepening the integration of industry and education, and an effective carrier for promoting precise docking between vocational colleges and industries. For example, in the "supply demand" stage, enterprises can convey production issues and talent training needs to modern vocational education through the market and industry in their production and operation activities. Then, research institutions, vocational colleges, etc. will carry out teaching reforms and innovations based on feedback from enterprises, and finally deliver high-quality and high-level technical and skilled talents to the industrial field, in order to achieve a positive interaction between vocational colleges and enterprises. However, at present, it is difficult to form a positive interaction between vocational colleges and enterprises in China, and there is a lack of smooth and effective communication mechanisms. The integration of industry and education emphasizes the "dual subject" operation of vocational colleges and enterprises. However, in the actual promotion process, the excessive pursuit of economic benefits by enterprises has led to a lack of emphasis on providing vocational information feedback to vocational colleges. The phenomenon of "hot universities and cold enterprises" has made it difficult to effectively integrate the development information of regional industries into the talent training system of vocational colleges, thereby seriously affecting the effectiveness of industry education integration.

2. Lack of sound evaluation mechanism

The core of cultivating high-quality and skilled technical talents lies in the fact that the talent training mechanism of vocational colleges meets the needs of society and enterprises. However, the evaluation mechanism adopted by vocational colleges at present is limited to their own interests, which makes it difficult to effectively reflect the interests and demands of enterprises and highlight the advantages of industry education integration in education. Usually, vocational colleges tend to reform and optimize their internal elements such as management systems and teaching models. The neglect of the demands of diverse entities such as the government and enterprises makes it difficult to attract them to actively participate in the reform and innovation of vocational colleges, which seriously affects the effectiveness and efficiency of the development of modern vocational education. In addition, vocational colleges lack a scientific and reasonable incentive mechanism, resulting in low enthusiasm among teachers, students, and enterprise employees to participate in the integration of industry and education. This imperfect evaluation mechanism seriously affects the sustainable development of modern vocational education and limits the diverse development of students.

II. Exploring the realistic path of modern vocational education reform based on the integration of industry and education

1. Coordinate planning and improve the governance system of industry education integration

The “big vocational education” advocated by the famous educator Mr. Huang Yanpei has important enlightening significance for the deepening reform of modern vocational education. Since its inception, vocational education has maintained close ties with vocational, technical, and other elements. After the implementation of the Education Law of the People’s Republic of China, it further elaborated on the type positioning of vocational education and the importance of developing modern vocational education from a legal perspective. In this regard, the government, industry, enterprises, and vocational colleges should establish a multi-party cooperation mechanism and establish a sound governance system for the integration of industry and education through overall planning.

Firstly, the top-level design of industry education integration should be optimized at the national and government levels, and corresponding laws and regulations on industry education integration should be introduced to effectively safeguard the basic rights and interests of all parties in promoting the process of industry education integration. This helps to encourage government departments at all levels to actively transform their functions and enhance policy support for various entities. At the same time, clarifying the distribution of interests, functional responsibilities, and cooperation models of enterprises, vocational colleges, and other entities through legal regulations can help promote the active implementation of industry education integration by enterprises and vocational colleges, and further enhance the effectiveness of the industry education integration governance system.

Secondly, based on the integration of industry and education, improve the internal governance mechanism of vocational colleges. Guided by relevant laws and regulations on the integration of industry and education, vocational colleges should establish and improve internal systems for staffing, personnel, and distribution, which can effectively regulate the operation mode of industry education integration. Specifically, vocational colleges can establish specialized management institutions for the integration of industry and education, develop management systems and methods with complete processes and rich connotations, in order to guide college teachers and enterprise personnel to have a clear understanding of the basic path of industry education integration, and ensure the smooth promotion of the deepening of industry education integration. For example, implementing the main responsibility mechanism for the integration of industry and education in enterprises. Guided by policies, building a long-term mechanism for the integration of industry and education can effectively leverage the important value of social forces in deepening the integration of industry and education, and enhance society’s recognition of the development of modern vocational education. Encouraging social forces to actively participate in the construction of mixed ownership vocational schools and vocational training institutions can effectively implement the talent training demands of enterprises and society into the talent training system of vocational education, and achieve precise integration between vocational curriculum teaching and the market. At the same time, government departments should also give vocational colleges certain autonomy in running schools, and implement tax reduction policies for vocational colleges through improving incentive mechanisms. This can lead vocational colleges to deepen the integration of industry and education with enterprises and industries around demand points, promote resource complementarity between both parties, and enhance the level of school enterprise cooperation in education.

2. Diversified interaction to stimulate the intrinsic vitality of industry education integration

The essence of modern vocational education is industry oriented cross-border education and market-oriented employment education. Therefore, deepening the integration of industry and education is the fundamental way for vocational colleges to innovate talent training models and improve the quality of talent training in the new era. In this regard, vocational colleges must keep up with the development trends of the market and industry, dynamically adjust talent training programs to form a positive interaction with enterprises and industries, effectively activate the endogenous driving force of industry education integration, and implement industry education integration in practice.

Specifically, at the institutional level, it is necessary to achieve “precise matching and dynamic adjustment”, that is, to break away from the traditional mode of school enterprise cooperation, meet the development needs of regional economy with a more proactive attitude, actively adapt to the demand of modern high-quality talents for enterprise development, and then achieve precise docking and matching of “talent supply” on campus and “job demand” off campus through innovative talent training mechanisms. On the one hand, vocational colleges should increase vocational skills training and build a high-level “dual teacher” teacher team. In order to build a “dual teacher” teaching team, vocational colleges can work together with enterprises to establish a human resources co construction and sharing mechanism. For example, setting up real and effective full-time positions for enterprise teachers on campus, in order to systematically introduce high-level and high-quality technical and skilled talents from the enterprise to serve as lecturers, can timely popularize the latest trends in the industry to students, and enable students to continuously learn new processes, technologies, and methods under the leadership of technical and skilled talents. Vocational colleges can also use the winter and summer vacations to select professional teachers to go deep into the production line of enterprises, and improve the vocational education level of full-time teachers by participating in the research and development of real projects. On the other hand, enterprises can achieve resonance on the same frequency by building a collaborative education platform. By coordinating teaching and production factors, schools and enterprises can create functional training bases that integrate practical teaching, production internships, and training services. This will help comprehensively promote innovation and entrepreneurship education in vocational colleges, cultivate students’ innovative spirit and creativity.

At the enterprise level, in the process of promoting the integration of industry and education, enterprises should actively transform

the traditional concept of school enterprise cooperation and take on the main educational responsibilities with a more proactive attitude. As an important promoter of the integration of maternity leave, enterprises should not only demonstrate their own initiative, but also correctly play an important role in promoting the reform and innovation of modern vocational education. By building three-dimensional channels and multidimensional links, they can achieve diversified interactions with the government, industry, and vocational colleges. On the one hand, enterprises can leverage models such as “attracting enterprises to schools” and “industrial colleges” to achieve precise integration between workshops and training bases, in order to provide diversified internship and training opportunities for vocational college students. On the other hand, by creating multidimensional links based on market and expertise, technology and projects, and guided by processes, developing new forms of teaching materials and school-based teaching materials from the production process of enterprises can enhance the coupling of school enterprise cooperation, facilitate communication and exchange between schools and enterprises, and achieve precise two-way docking.

3. Innovate evaluation and improve the mechanism for evaluating the integration of industry and education

As important entities in the integration of industry and education, enterprises and vocational colleges should build cooperative partnerships of mutual assistance and trust, and create a collaborative pattern of common development and mutual benefit, which is the basic connotation of deepening the integration of industry and education in the new era. On this basis, improving the evaluation mechanism is not only a practical need to meet the development demands of enterprises, but also an inevitable way to promote the sustainable development of vocational colleges. The establishment of a collaborative and two-way teaching evaluation mechanism between schools and enterprises has significant practical value in achieving the full integration of vocational information and teaching elements, and fully integrating market and industry information into the talent training system of vocational education.

Firstly, improve the evaluation organizational system. In previous evaluations of school enterprise cooperation, vocational colleges often focused on measuring the final quality of talent cultivation, while neglecting the comprehensive evaluation of the talent cultivation process based on various factors. Therefore, based on the principles of diversification, innovation in evaluation organizational mechanisms according to the different demands of government, enterprises, vocational colleges and other entities can help clarify the focus of evaluation and effectively improve the accuracy of teaching evaluation. For example, in the “Achievement Evaluation Seminar”, all parties can jointly discuss evaluation methods, evaluation content, evaluation systems, etc., in order to comprehensively highlight the educational functions of each party. Secondly, guided by the evaluation results, establish a systematic and comprehensive incentive mechanism. By establishing a sound incentive mechanism and enhancing the enthusiasm of educators and enterprise employees to participate in the integration of industry and education, an internal driving force can be formed to deepen the integration of industry and education. This helps to fully demonstrate the baton function of evaluation reform, leading vocational colleges and enterprises to continuously deepen the integration of industry and education. Finally, based on performance, establish a personal evaluation system. Promoting the reform of the teacher and student evaluation system through this will help deepen the innovation of vocational education models. In short, establishing a sound supervision, evaluation, and incentive mechanism can effectively avoid surface problems in the implementation of industry education integration policies, avoid the mentality of “free riding” among enterprises, vocational colleges, and other entities, and fully play the guiding role of the industry education integration evaluation mechanism.

III. Conclusion

In summary, deepening the integration of industry and education is the only way for modern vocational education to achieve high-quality development in the new era, and points out the direction of reform for modern vocational education. In this regard, social enterprises and vocational colleges should take “educational reform” and “industrial transformation” as the starting point, with talent cultivation and industrial revitalization as the foothold, and then combine with the development trend of the social economy under the new situation. Through overall planning and multi-party cooperation, they should broaden the development boundary of modern vocational education and achieve precise docking between vocational college talent cultivation and enterprise positions. The deepening of the integration of industry and education has changed the previous predicament of graduates leaving school management. Vocational colleges can comprehensively understand the employment situation of graduates through school enterprise cooperation platforms. By continuously summarizing the employment advantages and disadvantages of graduates, this provides direct experience for optimizing the integrated education model of industry and education, and injects vitality into the high-quality development of modern vocational education.

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