



# Research on the Implementation Path of Industry-Teaching Integration Reform in Higher Vocational Colleges under the Background of New Quality Productivity

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**Abstract.** In the context of the rapid development of new quality productivity, higher vocational colleges and universities, as an important base for the cultivation of high-quality technical and skilled talents, the reform of the integration of industry and education has become a key initiative to promote industrial upgrading and high-quality economic development. This paper focuses on the implementation path of industry-teaching integration reform in higher vocational colleges under the background of new quality productivity, analyzes the new requirements and challenges put forward by the new quality productivity on higher vocational education, and puts forward a new model and new path of industry-teaching integration to adapt to the development of new quality productivity. The purpose of this paper is to deepen the reform of integration of production and education for higher vocational colleges and universities under the background of new quality productivity, and to promote higher vocational education to better serve the overall economic and social development.

**Keywords:** New Quality Productivity, Industry-Education Integration, Three Education Reforms.

## 1 Introduction

In today's era of globalization and accelerated development of information technology, new quality productivity, as a key force to promote economic and social progress, is reshaping the industrial pattern and employment structure at an unprecedented speed and scale. The new quality productivity, with science and technology innovation as the core driving force, deeply integrates the information technology, artificial intelligence, big data, cloud computing and other cutting-edge technologies, which not only improves the production efficiency and quality, but also gives rise to a large number of emerging industries and jobs, and puts forward higher requirements on the knowledge

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structure, skill level and innovation ability of talents. Higher vocational colleges and universities, as an important bridge connecting education and industry, bear the important responsibility of cultivating high-quality technical and skilled talents. Under the wave of new quality productivity, the reform of the integration of industry and education in higher vocational colleges and universities is particularly urgent and important. By deepening the integration of industry and education, higher vocational colleges and universities can more accurately meet the needs of industry, optimize the structure of talent training, improve the quality of education, and provide strong talent support for economic and social development [1].

Guangdong Province, with its rich and diversified industrial structure and booming new industries, has a particularly strong demand for highly skilled personnel. However, in the face of the rapid development of new quality productivity, higher vocational colleges and universities in Guangdong Province are still facing many challenges in the integration of industry and education, such as the low level of school-enterprise cooperation, the lack of optimization of the allocation of teaching resources, and insufficient innovation in talent cultivation mode. Therefore, combining the relevant national policies and documents and the actual situation of Guangdong Province, in-depth research on the implementation path of the reform of the integration of industry and education in higher vocational colleges and universities under the background of the new quality productivity is of great significance in promoting the high-quality development of vocational education in Guangdong Province and even in the whole country.

The background of the proposal of new quality productivity mainly stems from the new trend of global economic and scientific and technological development, as well as the urgent needs of society for high-quality development and innovation-driven. Its elimination is a response to the current international economic situation, and it is a contemporary advanced productive force that has been spawned by revolutionary technological breakthroughs, innovative allocation of production factors, and in-depth transformation and upgrading of industries. The new quality productivity takes the qualitative change of workers, labor materials, labor objects and their optimal combination as the basic connotation, and the improvement of total factor productivity as the core symbol [2].

## **2 Top-Level Design of the Implementation Path of Industry-Education Integration Reform**

### **2.1 Improve the Design of Policies at the Government Level**

As the leader and manager of vocational education, the government shoulders the important responsibilities of formulating policies, providing financial support, and building a cooperation platform. In order to promote the in-depth development of industry-education integration, the government needs to carry out top-level design from the following aspects:

(1) Formulate a clear vocational education development strategy and plan, and clarify the goals, paths and key tasks of industry-education integration. Through policy

guidance, promote the close connection between vocational education and industrial development, and promote the organic connection between the education chain, talent chain, industrial chain and innovation chain.

(2) Increase financial investment, establish a special fund support mechanism, and ensure the smooth implementation of industry-education integration projects. The government can encourage enterprises and schools to participate in industry-education integration and enhance the enthusiasm for cooperation through various means such as grants, tax cuts, and subsidies.

(3) Build an effective cooperation platform to promote school-enterprise cooperation and the integrated development of industry, academia, research and application. The government can set up a vocational education and industry cooperation committee to regularly organize exchanges and cooperation among enterprises, schools, scientific research institutions and industry associations to promote the integration and sharing of resources from all parties.

## 2.2 Improve the Management System and Mechanism

In the process of industry-education integration, the government, schools, enterprises and social organizations should improve the school-enterprise cooperation mechanism, promote the transformation of cooperation from loose to close, establish a governance structure with the participation of multiple subjects, perform their respective duties and work closely together to jointly promote the development of vocational education. The school shall set up a special school-enterprise cooperation office to be responsible for coordinating and coordinating school-enterprise cooperation matters. Enterprises should actively participate in the formulation and implementation of talent training programs, provide internship positions and technical support. Secondly, a scientific quality assurance system should be established to ensure the effect of industry-education integration. By formulating clear cooperation standards and evaluation indicators, the entire process of school-enterprise cooperation should be monitored and evaluated to ensure the quality and benefits of cooperation.

The in-depth promotion of industry-education integration is inseparable from a reasonable interest sharing mechanism. Therefore, in terms of interest distribution, a scientific and reasonable interest distribution system should be established to ensure that the rights and obligations of all parties in the cooperation are clear. By signing a detailed cooperation agreement, the input and benefits of schools, enterprises and other participants in the cooperation are clarified to protect the interests of all parties [3].

Establish an incentive mechanism to mobilize the enthusiasm of all parties to participate. Commend and reward schools, enterprises and individuals that have performed outstandingly in the integration of industry and education, and create a good atmosphere for active participation. The government can set up special funds to provide funding and rewards to units and individuals that have achieved outstanding results in the integration of industry and education projects, so as to encourage more enterprises and schools to actively participate.

At the same time, an incentive mechanism should be established to mobilize the enthusiasm of all parties to participate. We will commend and reward schools, enterprises and individuals that have performed outstandingly in the integration of industry and education, create a good atmosphere of cooperation, and promote the in-depth development of the integration of industry and education [4].

### **2.3 Integrate resources and realize the common construction and sharing of resources**

The effective implementation of the integration of industry and education cannot be separated from the integration and sharing of resources of the four parties of “government, industry, enterprise and university”. First, the government should play a leading role in building a resource integration platform. Through policy guidance and financial support, promote the effective allocation of resources, and promote the deep integration of vocational education and industrial development. Industry associations should play a bridging role to promote resource sharing. Industry associations can regularly organize exchanges and cooperation between enterprises and schools in the industry, promote the formulation and promotion of industry standards, and enhance the level of integration of industry and education. Secondly, enterprises should actively participate in resource sharing. Enterprises can promote the in-depth development of school-enterprise cooperation by providing internship and practical training positions, participating in the formulation and implementation of talent training programs, and sharing technical equipment and R&D achievements. Schools make full use of their teaching resources, scientific research achievements and alumni networks to serve the development needs of enterprises and the society, and promote the in-depth implementation of the integration of industry and education [5].

## **3 Build a High-Quality Industry-Education Integration Ecosystem**

### **3.1 Build a Resource Sharing Platform**

The construction of a resource sharing platform aims to integrate resources from all parties to achieve co-construction, sharing and efficient utilization. By setting up special funds, integrating the technical equipment, laboratories and R&D results of enterprises and colleges, and establishing an information sharing platform, we can effectively improve the efficiency and benefits of resource utilization and promote the in-depth development of industry-education integration.

Set up special funds to support the development of industry-education integration projects. The government can provide financial support, and industry associations and enterprises can jointly invest funds through joint investment to ensure the smooth implementation of the project.

Integrate the technical equipment, laboratories and R&D results of enterprises and colleges to promote resource sharing and cooperation. Enterprises can open their production lines and technical platforms, and colleges can provide advanced scientific research facilities and technical support to promote technological innovation and application.

### **3.2 Realize the Integration of Multiple Platforms**

By building a school-enterprise cooperation platform, a scientific research innovation platform and a training base platform, we can effectively promote the in-depth development of industry-education integration. The school-enterprise cooperation platform promotes in-depth cooperation between schools and enterprises, the scientific research and innovation platform promotes schools and enterprises to jointly carry out technology research and development and innovation projects, and the training base platform provides students with a real working environment and practice opportunities to improve their professional skills and comprehensive quality.

Establish a school-enterprise cooperation platform that combines online and offline to promote in-depth cooperation between schools and enterprises. The platform can publish enterprise needs and school resources, promote project docking, technical cooperation, talent training and other aspects of cooperation.

Establish a scientific research and innovation platform to promote schools and enterprises to jointly carry out technology research and development and innovation projects. Through joint research, solve technical problems in industrial development and promote the transformation and application of scientific and technological achievements.

Establish a regional training base platform to provide students with internship and practice opportunities, such as: an open regional industry-education integration practice center in the city. This type of platform can integrate the production lines of enterprises and the teaching resources of colleges and universities, provide students with a real working environment and practice opportunities, and improve their professional skills and comprehensive quality.

### **3.3 Build a Talent Integration Platform**

The exchange and integration of talents is the core goal of industry-education integration. By establishing a talent training platform for industry-education integration, promoting schools and enterprises to jointly formulate talent training plans, building a talent introduction platform to attract high-end talents and technical experts, and establishing a talent utilization platform to promote the rational allocation and flow of talents, the coordinated development of talent training, introduction and use can be achieved.

(1) Establish a talent training platform for industry-education integration and promote schools and enterprises to jointly formulate talent training plans. Through curriculum setting, practical training projects and school-enterprise cooperation, cultivate high-quality technical and skilled talents that meet market demand.

(2) Build a talent introduction platform to attract high-end talents and technical experts to participate in industry-education integration. The government and industry associations can provide policy support, and enterprises and colleges and universities can provide generous treatment and development opportunities to attract outstanding talents to join the cooperation team.

## 4 Conclusion

Under the background of new productivity, the reform of industry-education integration has become a key path to improve education quality, promote student employment and serve regional economic development. Taking advantage of the location of the Guangdong-Hong Kong-Macao Greater Bay Area, we should improve our ideological awareness, closely contact enterprises, promote the in-depth development of the reform of industry-education integration, extend from the reform of curriculum teaching mode to the comprehensive innovation of talent training mode, establish a long-term mechanism of industry-education integration, create more abundant professional results, improve the quality of talent training, and help achieve high-quality employment for graduates.

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