

Research on the Education System of Integration of Production and Education in Dongguan Vocational Colleges from the Perspective of Guangdong, Hong Kong and Macao

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Abstract: The construction of Guangdong, Hong Kong and Macao Bay area has brought unprecedented development opportunities for Dongguan higher vocational colleges, and the deep integration of production and education has gradually become a research hotspot. In order to integrate into the construction of Guangdong, Hong Kong and Macao Bay area, Dongguan vocational colleges must take the deep integration of production and education as the starting point. This paper puts forward the problems existing in the integration of production and education in Higher Vocational Colleges in Dongguan, and then puts forward the implementation path of strengthening the top-level design, stimulating the enthusiasm of enterprises to participate and accurately docking the talent demand of Guangdong, Hong Kong and Macao Bay area, so as to provide theoretical support for the research on the integration of industry and education in Dongguan higher vocational colleges from the perspective of Guangdong, Hong Kong and Macao..

Keywords: Guangdong, Hong Kong and Macao Bay Area; Dongguan Area; Higher Vocational Colleges; Integration of Production and Education.

1. Introduction

At present, the central cities of Guangdong, Hong Kong and Macao have obvious advantages in higher education gathering, especially the number of Higher Vocational Colleges accounts for half of the total number of colleges and universities in Guangdong Province. According to the plan, Dawan district will focus on tackling emerging technologies such as quantum technology, new generation network and communication, new generation artificial intelligence, third generation semiconductor materials and devices, new display technology, intelligent manufacturing and other emerging technologies in the future. The specialty setting of Higher Vocational Colleges in the Pearl River Delta precisely connects key industries and emerging industries, and has already made corresponding adjustments according to the development trend of regional economy, and is ahead of similar colleges. Dongguan higher vocational colleges must rely on the deep integration of production and education, promote education by production and promote production by teaching, so as to provide high-quality technical and skilled talents for the transformation and upgrading of regional industries.

2. Problems in the Integration of Production and Education in Dongguan Higher Vocational Colleges

Over the years, Dongguan higher vocational colleges have actively carried out school enterprise cooperation, combination of work and study, and integration of production and education, and achieved certain results, but the integration of production and education still faces many problems and difficulties.

2.1. The Integration of Production and Education is not Deep Enough

From the perspective of department setting, most of Dongguan higher vocational colleges do not set up independent production and education integration departments, which inevitably leads to the problem of scattered energy and no time to take into account at the same time. In addition, if the industry Education Integration Department is not independent, it will not have enough autonomy, so it will not be able to effectively and deeply connect with industries and enterprises. From the perspective of the integration of production and education, although there are many enterprises that have signed agreements with colleges and universities, most of them are short-term and non-standard low-level cooperation. From the perspective of system and mechanism, the current school enterprise cooperation lacks effective cooperation mode and mechanism, lacks effective communication platform between school and enterprise, and enterprise interests are not guaranteed. The management system, operation mechanism, investment policy and other factors of higher vocational colleges have affected the cooperation between schools and enterprises to varying degrees, and the effective mechanism and mode of industry education integration has not yet formed.

2.2. Difficulties in Connecting Production and Education

From the perspective of specialty setting, there is the phenomenon that whatever specialty is good for enrollment, the specialty setting is divorced from the industry; the specialty setting of some higher vocational colleges can not realize the accurate docking of industries and lose its own characteristics; the specialty often only connects to a certain link of the industry, and cannot connect with the whole industrial chain from production to sales, and the depth of specialty docking is not enough. From the perspective of teaching staff, most full-time teachers in higher vocational colleges are theoretical teachers with solid theoretical foundation, but lack of practical experience. Part time teachers with rich practical experience and enterprise technical backbone can not meet the normal teaching needs of the school because of time, salary, stability and other reasons. Although all higher vocational colleges are vigorously cultivating double qualified teachers and have achieved good results. However, it is still difficult to solve the problem of lack of practical experience in the short term, and it is difficult to achieve effective docking between full-time teachers and enterprise technical backbone.

2.3. Unscientific Curriculum

From the perspective of curriculum design, some professional courses are out of line with the training objectives, there are problems of setting courses according to people and setting courses behind closed doors. The teaching content is too old, and the teaching content is not updated in time according to the actual situation, resulting in the disconnection between the theoretical knowledge learned by students and the practice, and the actual personnel training situation is not consistent with the expected talent training goal. From the perspective of student practice, although many enterprises have participated in the school enterprise cooperation projects of higher vocational colleges, they generally have no high enthusiasm for students' internship. Considering the cost, enterprises do not have more time and energy to undertake the internship tasks, and the internship effect is not ideal. From the perspective of personnel training, the level and type of personnel training in higher vocational colleges are not compatible with the industrial layout and development needs of local real economy. The skilled, applied and compound talents that enterprises are eager for are in short supply for a long time, while the talents cultivated by higher vocational colleges are difficult to meet the requirements of enterprises. The talent training objectives of Higher Vocational Colleges and the actual demand of enterprises for talents are not really effectively connected.

3. Realization Path of Deep Integration of Production and Education in Dongguan Higher Vocational Colleges

Under the guidance of the national policy of deepening the reform and development of higher vocational colleges, and under the background of the construction of Guangdong, Hong Kong and Macao Bay Area in full swing, the government requires docking the construction of the big bay area to achieve the goal of creating an innovation highland, and proposes to fully integrate into the construction of Guangdong, Hong Kong and Macao Bay area, and strive to achieve high-quality development in the integration and service of the construction of Guangdong, Hong Kong and Macao Bay area. In this context, it has become an important task for Dongguan higher vocational colleges to explore the implementation path of integration of production and education into the construction of Guangdong, Hong Kong and Macao Bay area, improve the work efficiency of the integration and achieve the best effect.

3.1. Target Location

Some opinions on deepening the integration of production and Education issued by the general office of the State Council provides policy guidance at the national level for the integration of production and education in higher vocational colleges. However, the specific implementation still needs overall coordination and overall planning of governments, schools and enterprises at all levels. Dongguan higher vocational colleges should assist the local government to improve the supporting policies and legal system of the talent training mode of industry education integration. The implementation opinions of the general office of the people's Government of Guangdong Province on deepening the integration of production and education put forward that the construction of integration of production and education should be included in the performance evaluation system of colleges and universities, and the positioning, objectives, tasks and development paths of Vocational Colleges in the integration of production and education should be clarified. Dongguan higher vocational colleges should actively communicate and coordinate with the local government according to the requirements of the documents, and formulate corresponding guidance opinions in combination with the local reality. Even through the local people's Congress and other power departments, it can help to issue local vocational education laws and regulations, and clarify the rights and responsibilities of all parties in the integration of production and

education, so as to better guide the practice of production education integration in local higher vocational colleges.

3.2. Stimulate the Enthusiasm of Enterprises to Participate

In order to realize the deep integration of production and education, we must improve the participation of enterprises and highlight the important role of enterprises. In April 2019, the national development and Reform Commission and the Ministry of Education issued the implementation measures for the construction of industry education integrated enterprises (for Trial Implementation), proposing the construction of industry education integrated enterprises, with the purpose of guiding more enterprises to participate in running higher vocational colleges and deepening the reform, and improving the quality of technical and skilled personnel training. In order to stimulate the enthusiasm of enterprises to participate in the integration of industry and education, higher vocational colleges and enterprises must form a community of interests. The decision-making of the integration of production and education in higher vocational colleges must consider the interests of enterprises or accept the constraints of enterprises. Dongguan higher vocational colleges should strengthen cooperation with the local government, assist in issuing relevant policies, vigorously support enterprises and vocational colleges to carry out collaborative innovation around key industrial technologies, core processes and common problems, and accelerate the transformation of basic research results to industrial technology. Higher vocational colleges should take the actual needs of the production line as an important source of engineering technology research topics, improve the scientific research evaluation system, and take the achievement transformation as an important content of project and talent evaluation.

3.3. Accurately Meet the Talent Demand of Guangdong, Hong Kong and Macao

Higher vocational colleges should not only carry out the integration of production and education based on the local situation, but also cultivate high-quality technical and skilled talents to meet the needs of Guangdong, Hong Kong and Macao. Dongguan higher vocational colleges should put the service of local economic and social development into the overall development plan of the school, highlight the characteristics of serving the local economic and social development, actively integrate into the local national economy and social development plan, actively provide talents and intellectual support for local economic and social development, and actively provide high-quality technical and skilled talents and personnel training for local industries and enterprises. In order to actively integrate into the construction of Guangdong, Hong Kong and Macao Bay area, higher vocational colleges should take the integration of production and education as an important measure of economic transformation and upgrading in northern Guangdong, actively integrate into all aspects of the construction of Guangdong, Hong Kong and Macao, help local governments realize dislocation development, undertake industrial transfer, adjust specialty settings, accurately meet the needs of Dawan district for industrial transfer and personnel training, and strive to create a higher vocational education in Dongguan And high-quality technical personnel training highland.

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