

Research on the problems and paths of higher vocational school-enterprise cooperation education in the new era

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Abstract. School-enterprise cooperation education plays a huge role in serving the people's livelihood, optimizing the talent supply structure, and promoting the transformation of type education. Facing the new challenges brought by the sharp increase in enrollment, the diversification of student source structure, the shortage of educational resources and the reform of teaching methods under the background of enrollment expansion, higher vocational colleges need to establish quality development based on the innovation of talent training mode, the sharing of educational and teaching resources and the quality of teaching management. Under the guidance of these objectives, we should emphasize the people-oriented values, the concept of ability first and the concept of quality first, so as to optimize the practice ecology of school-enterprise cooperation education, promote the connotation development of higher vocational education and the sustainable development of social economy.

1 Introduction

In 2019, the Government Work Report made the policy of expanding the enrollment of 1 million higher vocational students independent of the education sector, as a national strategic measure of "multi pronged stabilization and employment expansion", raised the development of vocational education from the education level to the national strategic height, and endowed vocational education with higher responsibilities and missions in serving the construction of a modern economy, stabilizing employment, and ensuring the people's livelihood[1,2]. Following the successful completion of this task, the 2020 Government Work Report again proposed the goal of expanding the enrollment of higher vocational colleges by 2 million people. This measure is a recognition of the responsibility mission of higher vocational education from the national strategic level[3], and also an important development opportunity to promote the deep integration of industry and education and the cooperative education between schools and enterprises[4,5].

How to actively adapt to changes and achieve quality based enrollment expansion is an important task that vocational colleges need to solve urgently.

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2 The target of school-enterprise cooperative education under the background of higher vocational enrollment expansion

In the face of the important strategic deployment of million enrollment expansion, we must clarify the goal of school-enterprise cooperation in educating people, and give full play to the important role of school-enterprise cooperation in cultivating high-quality technical talents and promoting the reform and development of higher vocational education. Table 1 shows the target.

Table 1. The target orientation of school-enterprise cooperative education.

Section	Target aim
1.Talent training system	Reconstruct the talent training system with diversified systems, hierarchical classification and prominent characteristics
2.Resource supply	Greatly improve interaction with enterprises
3.Quality of talent training	Teaching management is to ensure the quality of talent training

2.1 Reconstruct the talent training system

The diversity and complexity of the student source structure under the background of million enrollment expansion, which is based on the characteristic development goal created jointly by the talent training model, directly challenges the traditional, unified pace, offline based, full-time "learning+practice" training model of higher vocational colleges[6,7]. In the case that the current talent training model focusing on school students is difficult to couple with the actual demand of social students after enrollment expansion, promoting the collaborative innovation of talent training mode of higher vocational education, and reconstructing a talent training system with diversified systems, hierarchical classification and prominent characteristics has become the primary goal of the reform of the school-enterprise cooperative education mode.

2.2 Improve the interaction between schools and enterprises

Based on the scale development goal of high-quality education resource sharing, the million enrollment expansion makes higher vocational colleges face huge pressure in terms of per student cost, teachers, teaching equipment, training conditions, logistics services, etc[8]. The self-sufficiency of higher vocational colleges' resources is far from meeting the needs of diversified talent training, which also determines that the degree of external dependence of higher vocational colleges, especially the degree of interaction with enterprises, has been greatly improved.

2.3 Improve the level of teaching management

The quality of higher vocational education is ultimately reflected in the quality of technical personnel training[9,10]. Teaching management is an important means to ensure the quality of personnel training.

3 There are the reform paths of school-enterprise cooperation education, under the background of higher vocational enrollment expansion, in the new era

The expansion of enrollment has brought about problems such as diversification of student source structure, diversification of learning needs, and complexity of teaching management. In order to highlight the era value of school-enterprise cooperative education in the context of enrollment expansion, and achieve the development goal of school-enterprise cooperative education, it is necessary to establish rational value thinking, optimize the education structure, improve the system design, and promote the steady improvement of talent training quality and teaching management level. Table 2 shows the reform paths.

Table 2. The reform path of school enterprise-cooperation education.

Solutions	Specific indicators
1.people oriented	Systematic thinking
	Service thinking
	Rule of law thinking
2.Competence center, employment orientation	Optimize professional structure
	Optimize the structure of teachers
	Strengthen individual multiple structure
3.Innovate flexible educational management mode	Implement flexible school system
	Improve the double tutor system

3.1 "People-oriented" education

The change of thinking under the guidance of people-oriented values "people-oriented" is the essence of socialist core values. It attaches importance to the value of human life, meets the reasonable needs of people, and pursues the freedom, equality and all-round development of people. The strategic action of million enrollment expansion in higher vocational education is an important embodiment of the implementation of the core values of "people-oriented". School-enterprise cooperation should always adhere to the value concept and value pursuit of "people-oriented", establish scientific and rational system thinking, development thinking and rule of law thinking, avoid the blindness of enrollment expansion in higher vocational colleges and the tendency of excessive utilitarianism in higher vocational education, and provide all-round and whole process services to achieve the development of the comprehensive quality and employability of different groups of students.

3.2 "Ability based" education

Ability oriented structure optimization under the guidance of the concept of focusing on education is the main goal of technical and skilled personnel training in higher vocational colleges at home and abroad. TAFE (Technical And Further Education) has built a higher vocational education system with diverse levels, flexible school system and strong teachers with the purpose of "ability center and employment orientation", The double requirements of the German University of Applied Science and Technology in terms of academic qualifications and practical experience also reflect its ability based education concept, so as to promote the effective connection between talent training in higher vocational colleges and the employment market. Under the background of enrollment expansion, the reform of the talent training mode of school-enterprise cooperation should adhere to the education concept of "ability based", base on the cultivation of students' professional ability and

comprehensive quality, optimize the structure of teachers and majors, and realize the dynamic adjustment of talent demand and talent supply.

3.3 Flexible educational management mode

System design under the guidance of quality based management concept. The school-enterprise cooperation education model under the background of million enrollment expansion has brought about changes in thinking and structure, but also impacted the traditional education management model. In addition to focusing on the effectiveness of education and teaching activities under the guidance of people-oriented values and ability oriented education concept, It is also crucial to innovate the flexible educational management mode under the guidance of scientific quality management concept.

4 Conclusions

School-enterprise cooperation education is the demand and inevitable choice of the times to serve the national employment and livelihood, optimize the supply of technical talents, and promote the deepening reform of higher vocational education under the background of million enrollment expansion.

Under the guidance of scientific and rational values, education outlook and management outlook, the in-depth cooperation between schools and enterprises in talent training mode, education resources, teaching management and other aspects needs to build a school-enterprise cooperation education ecology through systematic thinking, service thinking, rule of law thinking and other thinking changes, and promote the effective connection between talent training and market demand through the optimization of professional structure, teacher structure, individual conduct, knowledge, skills and other multiple structures, Through the optimization design of flexible school system, double tutor system and quality evaluation system, we will promote the improvement of talent training quality management level, improve the school-enterprise cooperation education mode with Chinese characteristics on the basis of the overall planning of the government, the in-depth cooperation between higher vocational colleges and enterprises, and develop higher vocational education with appropriate scale, distinctive characteristics and stable quality.

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