

Research on the Innovation and Optimization Path of Specialty Groups in Higher Vocational Colleges under the Mode of “Building Secondary College by Groups”

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Abstract: With the implementation of the high-level higher vocational schools with Chinese characteristics and the specialty construction plan, higher vocational education is facing new challenges and opportunities. In order to adapt to the rapid development of social economy and continuous adjustment of industrial structure. The mode of “Building secondary college by groups” has been widely used in the construction of specialty groups in higher vocational colleges, which changes the single specialty setting into the specialty group combination to adapt to the complicated and changeable social demand and the development trend of the industry. This paper analyzes the characteristics and connotation of the mode of “Building secondary college by groups”, and probes into the basic requirements for the construction of specialty groups in higher vocational colleges, on this basis, the paper puts forward the innovation and optimization path of higher vocational colleges’ specialty groups under the mode of “Building secondary college by groups”, aiming at improving the teaching quality of higher vocational colleges in the new period, to provide reference advice on training excellent professional talents with comprehensive quality.

Keywords: Higher vocational colleges; “Building secondary college by groups”; Specialty Group; Innovation and optimization

The traditional mode of specialty establishment in higher vocational colleges is facing the problems of single, closed and difficult to adapt to the industrial upgrading, the introduction of the mode of “Building secondary college by groups” not only puts forward a new request for the management mode and the school-running idea of higher vocational colleges, but also provides a broad space for the innovation and development of professional groups. The construction of specialty group is of great significance in integrating educational resources, improving teaching effect and cultivating students with more comprehensive quality. At present, in the implementation of “Double-height Plan”, higher vocational colleges have gradually realized that “Building secondary college by groups” is a more practical management mode, it is urgent to study how to implement “Building Hospital by Group”, how to optimize the development of each specialty in the specialty group, and how to construct the mechanism of sustainable development. Therefore, this paper aims to deeply analyze the innovation and optimization path of specialty groups in higher vocational colleges under the mode of “Building secondary college by groups”, the strategies and methods are as follows: to define the orientation and planning of specialty group, to promote the integrated development of each specialty in specialty group, to construct efficient teachers team, and to establish the guarantee mechanism for the sustainable development of specialty group.

1. “Building secondary college by groups” model overview

The proposal of “Building secondary college by groups” originates from the construction plan of high-level vocational schools and majors with Chinese characteristics, the plan aims to promote the construction of the governance system and the modernization of the governance capacity of higher vocational colleges, and to provide strong support for the formation of high-level professional groups. The Ministry of Education and the Ministry of Finance’s “Opinions on the implementation of the plan for the construction of high-level vocational schools and specialties with Chinese characteristics” and the “Opinions on the implementation of the plan for the construction of high-level vocational schools and high-level professional groups in Sichuan Province” issued by the Sichuan Provincial Department of Education and the Sichuan Provincial Department of Finance clearly point out the importance

of the “Building secondary college by groups” model, it is emphasized that the construction and development mechanism should be oriented to regional or industry key industries, relying on advantageous and characteristic specialties, improving the connection industry, dynamic adjustment and self-improvement of specialty clusters. The core idea of “Building secondary college by groups” is to construct specialty groups, which can promote the integration of specialty resources and the optimization of specialty structure to a great extent. The implementation of this model aims to achieve the supply-side of talent training and industrial demand-side integration of all-round, for the industrial chain, job groups, knowledge chain to provide an organic link. Within the specialty group, the specialty is gradually formed according to the development of the Discipline Foundation in the long-term school-running process, which has the same discipline foundation and forms the professional team of the teaching staff [2]. This provides a good basis for the formation of high-level professional groups, so that each profession can better in the corresponding industry chain, post group, knowledge chain to play their own values and functions.

In addition, the implementation of “Double-height plan” breaks the traditional management mode and Operation Mechanism of higher vocational colleges, and takes the construction of specialty groups as the booster to promote the construction of governance system and the modernization of governance ability of higher vocational colleges. In the construction of specialty group, higher vocational colleges can choose two ways: “Build a group by academy” and “Build a group by academy”. No matter which way you choose, you need to carry out a comprehensive and systematic design, which is in line with the development of the industry, in line with the law of education, and conducive to the development of all majors. Among them, “To build a hospital by the group” to solve the development goals, professional layout, manpower matching and other issues, need to conduct in-depth research and discussion. The construction of specialty group should not only consider the optimization of internal governance structure, but also expand the autonomy of the management of the second-level colleges and departments, and develop multi-specialty teaching organization to meet the development needs of specialty group. The implementation of this model provides higher vocational colleges with greater flexibility and innovation space, so that educational resources can better serve the development of industry and society. At the same time, higher vocational colleges can better adapt to the needs of industrial transformation and upgrading, and optimize the professional distribution through the mode of “Building secondary college by groups”, it provides strong support for training technical talents and promoting technical skill innovation. In a word, the construction of specialty groups and the implementation of the mode of “Building secondary college by groups” are not only helpful to the high-quality development of higher vocational colleges, but also an important step to promote the administrative organization of vocational education. By reconstructing the management system and constructing a cooperative, open and systematic professional group, higher vocational colleges can better meet the challenges of the new era and realize the deep integration of talent training and industry demand, to inject new impetus into the sustainable development of China’s vocational education.

2. The basic requirements for the construction of specialty groups in higher vocational colleges

The essence of the construction and development of high-level professional groups with Chinese characteristics requires that the educational functions and basic educational functions of higher vocational colleges should be put into practice in the major, the construction and development of majors and specialty groups become the key path to better fulfill the educational function and basic function of higher vocational colleges. In particular, in the implementation of the “Double-high Plan”, the construction of high-level professional groups is regarded as an important way of high-quality development, and the construction of professional groups is not a static result, however, along with the dynamic process of continuous optimization and upgrading of industry development, it is necessary to perfect the mechanism of the construction and development of specialty clusters, such as docking industry, dynamic adjustment and self-improvement, this paper studies the mechanism and optimization path of specialty cluster construction, in order to further deepen the measures guarantee of high-level specialty cluster connecting industry chain and post cluster, and constantly enhance the adaptability of talent training in vocational colleges. On the one hand, the modernization of educational governance system and capacity is embodied in the optimization of internal governance structure, the expansion of the autonomy of the second-level colleges and departments, and the development of multi-disciplinary teaching organizations. The establishment of high-level professional groups has become a booster to promote the construction of the governance system and the modernization of the governance capacity of higher vocational colleges. The governance of specialty group is not only the task of construction of specialty group itself, but also the inner requirement of sustainable development of specialty group. Through the mode of “Building secondary college by groups”, higher vocational colleges can better adapt to the needs of industrial transformation and upgrading, and optimize the professional layout, so as to realize the modernization of governance system and governance capacity.

On the other hand, it is an important task for the implementation of the national and provincial “Double-high plan” to deepen the measures to ensure the high-level professional groups to connect the industrial chain and the post groups. Higher vocational colleges should focus on the layout of regional industrial structure and set up majors dynamically according to the adjustment, upgrading and transformation of industrial structure. According to the principles of “Similar specialty and technical fields, common specialty and basic courses, co-construction and sharing of teaching resources, and high degree of employment connection”, the specialty clusters should be formed, and the effect of specialty clusters should be brought into play, realize the seamless connection between Specialty Group and industry chain, curriculum setting and post demand, teaching process and production process. Under the mode of “Building secondary college by groups”, specialty groups break through the rigid mode of traditional specialty construction, promote the integration and sharing of resources among majors, inside and outside campus, and bring into play the aggregation benefit of “1 + 1 & GT; 2”, to achieve the goal of professional cluster docking area or industry key industries. To sum up, the basic requirements for the construction of specialty groups in higher vocational colleges include deeply studying the mechanism and optimizing path of specialty groups, promoting the modernization of educational governance system and governance capacity, and deepen the high-level professional groups to link up the industrial chain, post group measures to protect. These requirements not only affect the development direction and quality of higher vocational colleges, but also affect the deep integration of professional groups with industry and society.

3. The innovation and optimization path of specialty group in higher vocational colleges under the mode of “Building secondary college by groups”

3.1 Professional group positioning and planning

Under the mode of “Building secondary college by groups”, the orientation and planning of specialty group is a key link in the path of innovation and optimization of specialty group in higher vocational colleges, which directly affects the development and implementation of the whole specialty group, the orientation of Professional Group aims at defining its service field, development direction and corresponding industry chain and post group. First, the orientation of specialty groups should be in line with the key industries of Regions or industries, relying on the advantages of higher vocational colleges, so that specialty groups better serve the development of industries^[4]. According to social constructivism theory, in the construction of professional clusters, this means that students learn in collaboration, through interaction with classmates, teachers and industry professionals to build knowledge and skills, therefore, professional clusters should consider the characteristics of regional industrial structure and closely integrate the needs of the industry, To ensure that the professional setting has practical social value and application prospects. Secondly, it is necessary to consider the similarity of specialty fields and ensure the relativity and synergy among specialties, which helps to form the agglomeration effect within specialty groups, in order to improve the comprehensive competitive power of the whole professional group, it is necessary to pay attention to the interconnectedness of the basic professional courses, to ensure that a common teaching system is formed within the specialty group to provide students with more systematic and complete subject knowledge. Thirdly, in the area of specialty cluster planning, we need to adjust, upgrade and transform the industrial structure, set up the specialty dynamically to adapt to the changing market demand. The practice-oriented education theory points out that the construction of specialty groups in higher vocational colleges pays attention to the training of students’ practical application ability, and the construction of practice-oriented education theory emphasizes that students learn through practical operation and project practice, therefore, the planning should pay attention to the close connection between the specialty group and the industry chain, the curriculum setting and the post demand, the teaching process and the production process, achieve a high level of professional groups and industry in-depth integration. Fourth, the planning also needs to focus on the coordinated development of professional groups, to promote the professional in the corresponding industrial chain, job groups, knowledge chain to play their own values and functions. In planning, we should take into account the future industrial trends and the direction of technological innovation, so as to make professional groups more forward-looking and sustainable. Fifthly, in the process of implementing the mode of “Building hospitals by groups”, the positioning and planning of professional groups should run through the whole development path, and through scientific and reasonable positioning and planning, higher vocational colleges can better meet the needs of the Society for all kinds of professional personnel, to achieve the goal of high-level professional groups. This process not only needs the school to own superiority and the characteristic full cognition, but also needs to pay close attention to the industrial development dynamic change, flexibly adjusts the specialized group the development direction, in order to promote the professional groups of higher vocational colleges to become a powerful support for industrial upgrading and personnel training, and to promote the “Building secondary college by groups” model in the practical application of the maximum benefit.

3.2 Teacher team building in professional groups

The innovation and optimization of professional groups in higher vocational colleges has become a key factor in the rational implementation of the mode of "Building secondary college by groups", the construction of Professional Group Teachers' team aims at building a cross-professional, cross-professional, cross-disciplinary team to meet the development needs of professional group and enhance the level of teaching innovation.

First of all, the construction of professional group teachers team needs to focus on the formation of cross-professional, cross-sectoral, so that teachers in different professional areas can be in-depth cooperation, exchange of experience, form a team with strong integration and remarkable synergy. This will help break down the boundaries of traditional disciplines, achieve cross-integration of knowledge, and provide students with more comprehensive professional knowledge. Secondly, build a cross-disciplinary team of teachers around the development needs of professional groups. By introducing teachers from different disciplines to realize the multi-integration of knowledge, so as to better adapt to the development trend of professional groups, professional team-building is helpful to train students' interdisciplinary thinking and comprehensive ability, improve their adaptability and creativity at Work [5]. In particular, by organizing various kinds of training activities, the teaching level and professional quality of teachers can be improved so that they can better meet the teaching needs of professional groups, the content of training should include emerging technology, industry trends, curriculum design, so that teachers can keep up with the pace of professional development, to provide students with the latest knowledge and practical experience. Finally, the professional group teachers team-building needs to strengthen cooperation with the industry. By cooperating with enterprises and participating in practical projects, teachers can better understand the needs of the industry, integrate practical application situations into teaching, and improve students' practical operation ability, this close cooperation with industry also contributes to the formation of a practical application-oriented teaching philosophy, so that the teaching of professional groups closer to the actual industry.

3.3 Integration and development of various professions within the professional cluster

The aim of the integration development of the majors in the professional cluster is to realize the coordinated development and give full play to the agglomeration effect and service function of the professional cluster by promoting the deep integration among the majors. In particular, according to the requirements of interdisciplinary integration theory, the construction of specialty clusters usually requires the coordination of different specialties, and the interdisciplinary integration theory emphasizes the cross-cooperation among different disciplines, to enable students to integrate their knowledge across multiple fields, which also means that the integration of disciplines within a professional cluster needs to be based on similar professional and technical fields and disciplines, different majors should share similar theoretical basis and technical fields, so that the majors in the specialty group can support and complement each other. On the one hand, the integration development also needs to pay attention to the synergy within the professional groups, to promote the formation of an organic whole of the various professions, through the sharing of experimental training facilities and equipment, and the implementation of common practical training tasks, to realize the efficient use of teaching resources and improve the comprehensive practical ability will not only help to reduce the cost of resources input, but also promote students to develop more comprehensive ability in inter-professional cooperation, enhance their team spirit. On the other hand, under the model of "Building hospitals by groups", the development of cross-specialty integration needs to emphasize the logical requirements of corresponding industry chain, post group and knowledge chain, plan the layout of the specialties within the specialty cluster to better meet the actual needs of the local or industry. This kind of market-oriented integrated development not only helps to improve the employment competitiveness of students, but also makes higher vocational colleges better adapt to the adjustment and upgrading of industrial structure. In addition, the integrated development of the majors in the professional cluster also needs to pay attention to the construction of the teachers' team. Through the construction of a cross-disciplinary, cross-professional vision of the teacher team, to promote teachers in the curriculum, teaching content and practice links to form a more comprehensive teaching system. This helps to increase the flexibility and diversity of teaching and to meet the needs of students in different disciplines.

3.4 The safeguard mechanism for the sustainable development of professional clusters

In order to fully realize the mode of "Building hospitals by groups", constructing the guarantee mechanism of the sustainable development of specialty clusters can ensure that the specialty clusters can move forward steadily in the long-term development, adapt to the social change and the dynamic change of the industrial demand, the corresponding safeguard mechanism needs to be clear about the development goal and the professional layout when the professional cluster is formed. This requires an in-depth study of the orientation of specialty clusters, service fields, and industrial linkages, to ensure that the development direction of specialty clusters

is in line with the needs of the current social industrial structure, and to identify development goals, it can provide clear development direction and strategic direction for professional groups and lay a foundation for sustainable development.

To construct the guarantee mechanism for the sustainable development of specialty groups, we should pay attention to the optimization of the internal governance structure, define the relationship between secondary colleges and specialty groups, and clarify the responsibilities of management and service, it is necessary to establish a complete set of systems, including personnel, finance and teaching resources, to establish a management mechanism adapted to the mode of "Building secondary college by groups" and to improve the efficiency of internal governance, to support synergy and efficient operation within the professional cluster. In order to cope with the changes of industrial chain and the dynamic adjustment of social demand, the mechanism of ensuring the sustainable development of professional clusters should also pay attention to the mechanism of information sharing and feedback within the professional clusters, it is necessary to establish the platform of industry linkage and industry-university-research cooperation to promote the information exchange between professional groups and external environment, and to know the industry trend and employment demand in real time. Through the information sharing, we can adjust the professional setup and update the teaching content in time to ensure that all the majors in the professional cluster can connect closely with the requirements of industry chain, post group and knowledge chain^[6]. It is an important task for higher vocational colleges to construct the guarantee mechanism for the sustainable development of specialty groups, which aims to ensure that specialty groups can not only adapt to the current social industrial structure, but also meet the needs of the higher vocational colleges, more flexible adjustment, adapt to future social development trends, through solid internal governance, information sharing, faculty building and other mechanisms, higher vocational colleges can realize the sustainable development of professional groups.

Conclusion:

Under the mode of "Building secondary college by groups", the innovation and optimization path of professional groups in higher vocational colleges involves many factors, it includes the orientation and planning of specialty group, the integrated development of each specialty in specialty group, the construction of teachers team and the guarantee mechanism of the sustainable development of specialty group. Through the implementation of the above-mentioned strategies, higher vocational colleges can better adapt to the needs of industry, so that the development of professional groups in line with the actual needs of society, the multi-disciplinary and multi-specialty thinking in planning is helpful to construct a comprehensive teaching mode and realize the deep integration of specialty group with industry chain, post group and knowledge chain. The above-mentioned factors are interwoven and constitute an organic and all-round development framework, which promotes the all-round development of high-level professional groups in higher vocational colleges and better provides education close to the actual needs of students, for the industrial structure optimization and upgrading to train more practical ability of professional personnel.

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