Research on the construction path of production education integration training base in Higher Vocational Education

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Abstract: with the further promotion of vocational education reform, teachers and school authorities in higher vocational colleges have gradually realized the importance of cultivating students' comprehensive quality and practical ability, and attached importance to the construction of training base. In this context, the construction of training base under the mode of integration of production and education can promote the improvement of talent training quality in higher vocational colleges, and realize the cultivation of applied talents with high quality and high level of specialization around the new talent training mechanism and in combination with the employment needs of enterprises. Based on this, this paper will focus on the research on the construction path of production and education integration training base in higher vocational education

Key words: higher vocational education; Education; Integration of production and education; Training base

In the context of the new era, in the face of the continuous transformation and upgrading of the industry, higher vocational colleges' practical teaching should also actively focus on the modern education path of the integration of industry and education to do a good job in the construction of professional training base, so as to enhance the coordination between professional education and the enterprise industry, so as to cultivate students more in line with the employment needs and standards of enterprises, Further ensure the quality of professional education, and realize the tripartite win-win of students, schools and enterprises in a real sense.

1 An overview of production education integration education mode

1.1 Connotation of production education integration mode

The mode of integration of industry and education mainly refers to the education mode in which the school actively cooperates with social enterprises according to its own actual situation of professional education and teaching, develops industries in the market and builds cooperative relations, and on this basis links professional teaching with the market, enterprises and industries, integrates teaching and Industry, and realizes the coordinated development of professional education and enterprises. The integration of production and education is a two-way cooperation and mutual promotion education mode. While carrying out the integration of production and education education mode, colleges and universities can promote the development direction of the school from educational institutions to the integration of scientific research, scientific and technological services and personnel training, and provide students with more time and space for self-improvement and create a platform for practice, It is of great significance not only to improve the quality and results of professional skills teaching and ensure the improvement of the educational level of colleges and universities, but also to promote the win-win situation of students, colleges and enterprises. The implementation of the integration of production and education can promote students to hone their professional skills in the post, and help students deeply understand the work practice, work standards, professional quality requirements and other issues of their professional corresponding post, so that students can form a correct professional cognition and provide good protection for students' employment. Therefore, under the background of the new era, higher vocational education must adhere to the road of integration of production and education, so as to provide more high-quality and compound professionals for the society.

1.2 Connotation analysis of the construction of production education integration training base

In recent years, China has continuously accelerated the system construction of vocational education, deepened the integration of production and education and school enterprise cooperation, and cultivated high-quality talents and skilled professionals. At present, vigorously developing higher vocational education needs to meet the needs of socialist modernization, which plays an important role in popularizing higher education and improving the education structure. Higher vocational colleges need to grasp the school running direction of serving development and promoting employment in the process of building training base, adhere to the mode of production and education integration, school enterprise cooperation and work study plan, guide industry enterprises to actively support vocational education, build the practice teaching system of training base, and promote the development of students' practical ability. The implementation of the construction of the production education integration training base can promote students to hone their professional skills in the post, and help students deeply understand the work practice, work standards, professional quality requirements and other issues of the corresponding post of their major, so that students can form a correct professional cognition in the practical training and provide a good guarantee for their employment.

2 Analysis of the current situation of the construction of production education integration training base in Higher Vocational Education

The construction of on campus and off campus training base in higher vocational colleges is an important basis and guarantee for the teaching mode of integration of production and education, and the training base is also an important place for carrying out training teaching in vocational education. Under the background of vocational education of integration of production and education and school enterprise



cooperation, higher vocational colleges should actively explore the work study combination mode of vocational education teaching, organize training teaching, and improve the quality of running a school, But in practice, higher vocational colleges still have problems to face and solve. First of all, in the construction of the training base, the government, higher vocational colleges and enterprises need to cooperate in three aspects, in which the government often plays a leading role and takes the initiative to guide the cooperation between schools and enterprises. However, in the practice of education, the implementation of the policy is not perfect enough, the guiding role of the government on school enterprise cooperation needs to be strengthened, and the incentive mechanism of school enterprise cooperation needs to be more perfect, so as to ensure the enthusiasm of enterprises to participate in school enterprise cooperation, the integration of industry and education, and the construction of practice base. Secondly, in terms of cooperation between enterprises and schools, the construction of production education integration training base needs to cooperate with the history integration teaching and students' vocational skills training. The construction of training base needs deep cooperation between schools and enterprises, full exchange of views and sharing of educational resources. However, in the process of practical cooperation, the form of cooperation between enterprises and higher vocational colleges is relatively single. Enterprises only provide training venues for schools, and do not fully participate in the formulation of talent training programs, teaching objectives and professional courses, resulting in the training degree of students' professional ability and job requirements is not high enough, and their employment competitiveness is reduced.

3 Analysis on the construction strategy of production education integration training base in Higher Vocational Education

3.1 Meet the needs of enterprises and strengthen the construction of training base

The construction of training base is an important link in the talent training of higher vocational colleges, and it is also an important content of the construction of vocational colleges. Vocational colleges should dynamically adjust the training teaching according to the professional teaching needs and the employment standards of enterprises, optimize the professional curriculum, strengthen the construction of training base, and ensure the improvement of the effect of training teaching. First of all, higher vocational colleges should clarify the types of training bases, including professional training bases, vocational education training bases, production-oriented training bases and public training bases, which focus on professional construction and technology frontier, interaction between teachers and students and school enterprises, product production technology research and development and economic benefits, and training bases for various groups. Higher vocational colleges should face students with different majors and learning needs, comprehensively consider how to build appropriate training base, so as to promote the docking of talent chain and industrial chain, and accurately cultivate professional talents. Higher vocational colleges should focus on the characteristics of high-tech industry, manufacturing industry, modern service industry and other specialties, set up different types of training base construction schemes with different emphasis, strengthen the guiding construction, and realize the goal of training base construction to promote the development of vocational education. Secondly, higher vocational colleges should comprehensively consider the upgrading of regional industrial structure, cooperate with the needs of enterprises in high-tech, and increase the construction of training base for high-tech industry. In the economically developed regions of the eastern region, the high-tech industry should be in line with international standards, realize transformation and upgrading, and transform from manufacturing to service industry, so as to drive the regional economic development. In the central and western regions, it is also necessary to adjust educational resources in a timely manner, tilt to modern service industry and technology industry, and not limit to traditional industries. It is necessary to strengthen enterprise cooperation, keep up with industrial upgrading, and provide technical talents for industrial development. Furthermore, higher vocational colleges should focus on the integrated talent training needs, strengthen communication with enterprises, communicate and coordinate with enterprises in the process of talent training at different levels, establish a unified training concept, and then provide guidance for the construction of training bases. Higher vocational colleges should closely focus on the construction of multi-functional training base integrating teaching, scientific research, production and training, follow the principles of government guidance, enterprises as the main body and colleges as the basis, and realize the convergence of school and enterprise in the construction of training base.

3.2 School enterprise collaborative construction to cultivate compound talents

Under the background of China's comprehensive entry into the new era of socialist modernization, the new era also puts forward higher requirements for the development of vocational education. The construction of practical training base under the integration of production and education provides more possibilities for promoting the high-quality development of vocational education, the collaborative construction of multiple subjects, and the cluster construction of practical training projects, which is conducive to breaking through the restrictions of cooperation among subjects, Integrate the advantages of different subjects, jointly build the base system and share the base construction achievements. First of all, in the construction process of school enterprise cooperation and the integration of industry and education, the government, industry, enterprises and vocational colleges are required to jointly build cross-border collaborative construction. There are three different types of training bases: government led, industry led and college led. Among them, the government led training base has good policy and financial support, lacks practical experience in the training process, and most of the talents lack practical ability; Although the industry led training base contributes to the standardized construction of talent cultivation, it is not perfect in terms of system guarantee, which affects the long-term development of the training base; In the case of enterprise leadership, the teaching ability of enterprise teachers

is insufficient, and the overall teaching quality is insufficient. To sum up, the construction of training base needs funds, policies, standards, teaching ability and other elements. Under the background of high-quality development of vocational education and transformation and development of enterprises, the construction of training base integrating production and education should integrate the resources of all parties and develop cooperatively. Secondly, the collaborative construction should clarify the interest needs of each subject, promote the collaborative development of the training base, realize the construction of industry talent standards, promote local economic construction, and clarify the training scheme of high-quality skilled talents. In the process of coordination among various subjects, we should learn to think differently, meet interest demands and strive for greater benefits. To solve the problem of students' lack of practical ability and fully understand the needs of students, vocational colleges need to discuss with enterprises, cooperate with the construction of training base, establish a certain constraint mechanism, share the task of cultivating talents with enterprises and industries, and handle the relationship between different subjects according to regulations and standards.

3.3 School enterprise cooperation development and construction of training system

Higher vocational colleges should make it clear that the development of practical training courses is to help students improve their professional practice ability and innovation ability. Schools need to take students' practical ability and professional quality as the fundamental starting point, take students' professional practice ability and comprehensive development as the educational goal, refer to the professional qualification standards of corresponding majors and positions, and integrate them into the practical teaching goal, On this basis, carry out the practical teaching system. First of all, in the design of professional training teaching content, both schools and enterprises should carry out post standard analysis, analyze the students' future job responsibilities and work content, pertinently integrate the required knowledge and professional skills into the teaching and training objectives, and build a training teaching system with the participation of schools and enterprises. Students need to accept comprehensive and systematic education at different levels and stages in the teaching process to effectively improve students' professional ability and comprehensive quality. Schools and enterprises should jointly develop practical teaching inscriptions, modularize and systematize practical teaching, ensure the orderly improvement of students' ability, and comprehensively improve theoretical knowledge, professional skills, practical ability, professional quality, moral level and other aspects. Secondly, the standardized construction of the training base should promote the construction of the theory practice integration teaching, analyze the professional post construction and ability requirements, introduce the "1+x" system construction, and comprehensively reform the construction of the training base based on the post competency and professional core competence, combined with the skill certificate requirements of different majors, and integrate the school enterprise cooperation, Integrate the needs of enterprises into the professional construction, and promote the continuous reform and improvement of the training base. Finally, in the design of training assessment, the school should build a diversified and multi-body assessment and evaluation system involving the school, enterprises, industries and students under the mode of integration of production and education, and work with enterprises to formulate assessment standards. In the practice of practical teaching, teachers can arrange tasks in class to encourage students' autonomous learning, group cooperation and exploration, formulate plans for implementation and implementation, and carry out the evaluation after students' completion of the task. The comprehensive and objective evaluation is composed of students' self-evaluation, teachers' evaluation and enterprises' evaluation. The multiagent evaluation form is conducive to students' objective understanding of their own knowledge mastering ability and practical operation ability. Under the mode of production and education integration, both schools and enterprises can also realize the joint evaluation of enterprise experts and teachers in Higher Vocational Colleges on students' performance, realize the participation of enterprises and schools, and improve the construction of practical teaching system.

In a word, under the mode of integration of production and education, higher vocational colleges can obtain new development. In the process of the construction of training base, teachers can carry out practical teaching in a high-quality practical teaching environment, so that students can learn professional knowledge in a close to real industrial environment, internalize knowledge into their own ability and quality, meet the employment standards of enterprises and society, and improve their employment competitiveness.

References:

- [1] Yan Dai Research on school enterprise co construction of live broadcast e-commerce training base under the background of industry education integration -- a case study of Suzhou Institute of information technology [j]Science and technology wind, 2022 (30): 164-166
- [2] Minggang Han,Xiangfen Chen,Jiao Luo,Wen Liu Research on the construction of production education integration training base in the direction of Intelligent Manufacturing -- Taking Xianyang vocational and Technical College as an example [j]Internal combustion engines and accessories, 2022 (18): 118-120
- [3] Yanlin Chen Exploration and Practice on the construction mode of high level production and education integration training base -- Taking the construction of high level production and education integration training base of Huanggang Polytechnic as an example [j]Journal of Huanggang Polytechnic, 2022,24 (04): 32-35
- [4] Guofeng Li,Qingguo Sun,Kainan Liu,Xujiang Wang,Jiangyi Lun Research on the innovative mode of the construction of practical training base for the integration of production and education of Applied Chemical Technology Specialty Group in Higher Vocational Colleges [j]Industrial technology and vocational education, 2022,20 (04): 61-66
- [5] Hui Xu, Hong Sun Exploration on the construction of high level vocational education training base -- a case study of security technology major of Zhejiang Police Vocational College [j] Journal of Huainan Polytechnic, 2022,22 (03): 60-62

Application Strategy Analysis of BIM Technology in Construction Engineering Safety Management

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Abstract: modern information technology is widely used in construction projects, which promotes the efficiency and quality of construction safety management to be significantly improved. BIM technology promotes the effective implementation of project safety management. It has many advantages: accurately identify the risk sources in construction projects, further optimize the construction site layout, and avoid some unexpected accidents, So as to improve the quality of construction engineering safety management, and then promote the healthy development of the construction industry. This paper analyzes the application of BIM technology in construction engineering safety management from several aspects for reference.

Key words: BIM technology; Construction works; Safety management; Collision; construction organization

As a technology that has been deeply applied in construction engineering, BIM technology applied in the safety management of construction engineering can prompt the industry to avoid safety accidents to the maximum extent and guarantee the orderly development of all aspects of construction with the advantages of modeling, visualization and three-dimensional simulation,. Therefore, in the specific application process, the relevant enterprises should scientifically apply BIM technology, give full play to its functions, continuously improve the safety of construction projects and improve management efficiency.

1 BIM technology overview and application characteristics

1.1 Overview of BIM technology

BIM technology belongs to three-dimensional visualization digital model technology, which constructs three-dimensional model based on engineering data, and uses information technology to simulate the actual construction situation of construction project, so as to realize

- [6] Xiaoping Zhou, Jinming Yan, Lihui Wen Research on the reform mode of Higher Vocational operational training base under the background of integration of production and Education -- Taking "table memory" as an example [j] Journal of Guangdong Polytechnic of light industry, 2022,21 (02): 45-49
- [7] Lei Yu, Yuan Yan Construction and management of production and education integration training base of Higher Vocational Specialty Group under the background of "double high" -- Taking the new retail management specialty group of Hangzhou Institute of science and technology as an example [j] Journal of Anhui Institute of electronic information technology, 2022,21 (02): 98-101
- [8] Jiansheng Cui, Yuli Yi Empirical Study on the deep integration of industry and education of Tourism Management Major in Higher Vocational Colleges -- Taking the construction of production and education integration training base of Huazhu hotel management group in Liaoning Communications College as an example [j] Journal of Liaoning Provincial Communications College, 2022,24 (02): 59-63
- [9] Jianhong Zhang, Chengyang Zhang Exploration on the ways to improve the training service ability of regional enterprises under the background of the construction of production education integration platform -- Taking the Siemens training base of Yangzhou Vocational University as an example [j]Modern vocational education, 2021 (49): 144-145
- [10] Mingyuan Zhi From the perspective of big data, "1 + X" boosts the integration of school enterprise production and education to jointly build the accounting major in Higher Vocational Colleges -- a case study of the accounting major in Guangxi Vocational and Technical College of economics and trade [j] Guangxi Education, 2021 (27): 21-23
- [11] Xingjie Liu,Juan hou,Tao Hao,Xueyuan Niu Research and Practice on the integration strategy of "production and teaching" in the training base of Higher Vocational Colleges -- taking our "220kV substation training base" as an example [j]Modern vocational education, 2021 (17): 82-83
- [12] Xiaoe Huang Discussion on the construction of demonstration specialty and training base in Guangxi Higher Vocational Colleges -- Taking Guangxi Institute of water resources and electric power technology as an example [j]Guangxi Education, 2021 (07): 96-98
- [13] Ying Guan,Ping Xu,Wenhuan Wang Research on the construction and operation management innovation of training base in Higher Vocational Colleges under the background of the integration of production and Education -- Taking Jiangsu agriculture and Forestry Vocational and Technical College as an example [j]Mechanical vocational education, 2021 (01): 32-35
- [14] Yonghong Deng Exploration on the construction of school enterprise cooperation training base for music performance major in Higher Vocational Colleges under the mode of integration of production and Education -- Taking Hunan Vocational College of art as an example [j]Journal of Hunan Institute of Engineering (SOCIAL SCIENCE EDITION), 2020,30 (04): 116-121
- [15] Guang'an Zou Innovation and practice of the integration of production and education in Higher Vocational Colleges under the background of mixed ownership -- Taking the co construction of productive training base as an example [j]Education and teaching forum, 2020 (44): 66-67