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Research and Practice on the Talent Training Model of School Enterprise Cooperation Based on the “Four Integration Mechanism”

Zhengyan Huang¹, Jingyun Yin², Yijie Huang¹

1.Guangdong Polytechnic of Industry & Commerce, Guangzhou510510, Guangdong, China

2.Guangdong Polytechnic of Water Resources and Electric Engineering, Guangzhou510925, Guangdong, China

Abstract: In the current process of vocational education development, school enterprise cooperation is one of the important talent cultivation modes. In the context of school enterprise cooperation, the integration of four fields: base construction, industry education resources, dual teacher training, and engineering learning alternation can be achieved, which can cultivate more outstanding vocational and technical talents. This article mainly takes the electromechanical integration major as an example to analyze how to leverage the advantages of the four integration mechanism and better implement the talent cultivation model of school enterprise cooperation.

Keywords: Four integration mechanism; School enterprise cooperation; Talent cultivation mode

Introduction

The mechatronics integration major has trained a large number of professional and technical talents in China's industrial field, and is one of the permanent majors in many vocational schools. In recent years, with the continuous development and progress of society, higher standards and requirements have been put forward for the comprehensive quality of talents in the field of mechatronics integration. The education and teaching mode and methods of this major are also actively innovating. School enterprise cooperation is one of the more mature talent training models currently applied. The advantage of this model is that it can better leverage the value of various resources, enrich the teaching staff, and improve infrastructure, Mobilize students' subjective learning initiative, etc. Below, the author will analyze and explore relevant issues based on their own understanding and understanding.

1. The Application Status of School Enterprise Cooperation Talent Training Mode in Mechatronics Integration Major

Nowadays, the application of the school enterprise cooperation talent cultivation model in vocational colleges is not new. The advantages of this model are significant, that is, it can better integrate various educational resources, effectively compensate for the problems and deficiencies in vocational schools in fields such as training bases, teaching funds, and teaching staff. It plays a significant role in broadening students' horizons and improving their practical training abilities. After more than ten years of development, many schools have become more mature in applying the school enterprise cooperation talent cultivation model. However, there are also many problems and shortcomings in the specific application process. For example, some schools have problems with formality in the application process of the school enterprise cooperation model, insufficient participation of enterprises, poor integration of various educational resources, and the dual teacher system not fully playing its role and value. Therefore, it is extremely necessary to optimize and innovate the talent cultivation mode of school enterprise cooperation, in order to better enhance the comprehensive literacy of electromechanical integration professionals and cultivate more high-quality talents for society^[1].

2. Implementation Strategy for the Talent Training Model of School Enterprise Cooperation in Mechatronics Integration Based on the "Four Integration Mechanism"

2.1 Actively implementing the integration mechanism of base construction to provide guarantee for students' practical training

The mechatronics integration major has the characteristic of strong practicality, and students need to consolidate many of their knowledge step by step through practice in order to truly apply what they have learned. In the context of school enterprise cooperation, enterprises can provide various forms of training resources for schools, which can contribute to the construction of training bases. Therefore, schools should actively engage with enterprises, do a good job in base construction, and provide effective guarantees for the implementation of various training activities. Of course, in the process of constructing the integration mechanism for base construction, it is necessary to comprehensively consider multiple factors and clarify the responsibilities that schools and enterprises should bear each other, in order to make the integration effect more ideal. Relatively speaking, enterprises have more comprehensive and abundant training resources, so they invest more in the material field during the base construction process. However, this does not mean that schools have not paid enough in the base construction process. Although enterprises can provide sufficient resources for the base construction, their experience in the education field is not rich. How to effectively allocate these resources and how to scientifically and reasonably plan the base construction, These are all key issues that need to be considered during the construction of the integration mechanism for base construction. Clarifying responsibilities during the integration period can effectively avoid various integration problems, fully demonstrate the role and value of integration, and prepare for the optimization of various teaching work in the later stage^[2].

2.2 Actively implement the mechanism of integrating industry and education resources, and enrich teaching resources

The integration of industry and education has also been one of the important ways for vocational colleges to cultivate talents in recent years. Doing a good job of industry and education integration can enable students to fully understand the current development status of their respective industries, which is extremely beneficial for their comprehensive development. When implementing the mechanism of integrating industry and education resources, schools should play their own teaching guidance role, clarify which resources the enterprise and school have, and from which aspects these resources can be integrated. From the perspective of the school, it has rich theoretical resources, such as various textbooks being important theoretical resources; And enterprises have rich practical resources, such as electromechanical integration products, various processes and technologies. The implementation of the integration mechanism of industry and education assets can better enrich teaching resources, and with the support of various resources, provide more possibilities for students to learn and explore knowledge. For example, it can be combined with practical cases for discussion, allowing students to analyze cases and develop solutions, and fully unleash their creative thinking in case analysis. At the same time, suitable enterprises or departments should be selected as internship units based on the characteristics of the electromechanical industry. Through practical activities, students can exercise their hands-on operation skills, master knowledge, apply thinking methods, and solve problems during the production internship process, thereby strengthening the industrial practice process, helping them better adapt to the needs of the market and enterprises, and injecting a continuous source of power into the development of the electromechanical integration industry^[3].

2.3 Actively implementing the dual teacher training and integration mechanism to answer students' questions and dispel doubts

In the context of school enterprise cooperation, not only can a lot of material resources be introduced into the campus to provide guarantee for students' learning and development, but also outstanding talents from enterprises can be introduced to the school, building a dual teacher team^[4], fully leveraging the advantages of enterprises in the practical field, and timely answering students' questions and doubts. Under the background of school enterprise cooperation, schools can actively engage with enterprises, allowing talents with rich electromechanical integration professional skills to come to the school to teach, imparting their work experience and professional skills knowledge to students, enabling them to understand the current market requirements for electromechanical integration professional talents, helping students establish correct development goals, and clarify the direction of their efforts.

2.4 Actively implementing the mechanism of alternating engineering and learning, and strengthening students' practical abilities

The role of the combination of school enterprise engineering and learning is to effectively strengthen students' practical skills and

help them develop better. However, in order to make the integration mechanism of engineering and learning more effective, it is also necessary to pay attention to the coordination of student work tasks based on job requirements. It is necessary to conduct in-depth research and analysis in enterprises, analyze professional positions, determine the job requirements for each position, and then allocate positions scientifically and reasonably based on students' knowledge level and skill mastery. After completing the job allocation, it is also necessary to conduct a good evaluation of the students' job performance, understand whether they have successfully completed the job, what difficulties they have encountered during the work completion process, and optimize the mechanism in a timely manner to better play its role^[5-6].

In short, in the teaching process of mechatronics integration, it is necessary to truly play the positive role of the school enterprise talent cultivation model. It should not only be just a mere talk on paper, but also be based on the four integration mechanisms. It is necessary to do a good job in integrating base construction, industry and education resources, dual teacher cultivation, and engineering learning alternation, demonstrating the effectiveness of the school enterprise talent cultivation model from multiple levels, allowing students to actively participate in learning activities and enrich their knowledge reserves, Enable better self-development.

References:

- [1] Liu Hu, Li Chao, Ding Duobin, et al. Analysis of talent cultivation mode for mechatronics integration technology under the school enterprise cooperation model - Taking Tarim Vocational and Technical College as an example [J]. *Employment and Security*, 2023 (04): 148-150.
- [2] Gai Chaohui, Chen Yuankai, Li Daming. Research and Practice on the Construction of Mechanical and Electrical Integration Technology Backbone Disciplines in the Innovative Development Action Plan [J]. *Light Industry Technology*, 2021,37 (11): 149-152.
- [3] Wu Wenjing, Xie Fen. Analysis of the Training Mode and Effect of School Enterprise Cooperation Talents - Taking the Mechatronics Integration Technology Major as an Example [J]. *Green Technology*, 2020 (17): 245-246.
- [4] Zhu Lei. Construction of an Applied Talent Training Mechanism from the Perspective of School Enterprise Cooperation: A Review of "New Exploration of School Enterprise Cooperation - Research and Practice of Applied Undergraduate Talent Training Models in Local Universities" [J]. *Chinese Journal of Education*, 2019 (10): 142.
- [5] Lu Yunhui, Liu Jihua, Wen Yanmei Research and Practice on the "Course Post Certificate Integration" Talent Training Model for Higher Vocational Accounting Majors under the Cooperative Operation Mechanism between Schools and Enterprises [C]//*Today Fortune Magazine*. Proceedings of the First Today Fortune Forum in 2016 *Fortune Today Magazine*, 2016: 299-300.
- [6] Yang Youwen, Huang Wenjiao, Fang Xiaogang, et al. Research on the Practice and Mechanism of "Double Innovation" Talent Cultivation Based on School Enterprise Cooperation [J]. *Theoretical Research and Practice of Innovation and Entrepreneurship*, 2021 (22): 3.