

Research on the Comprehensive Education Model of "Post Course Competition Certificate+Ideological and Political Integration" in Vocational Colleges

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Abstract: This study aims to explore the application and effectiveness of the comprehensive education model of "on-the-job course certification competition+ideological and political integration" in coal mining majors of vocational colleges. This model combines practical courses with ideological and political education, aiming to cultivate high-quality talents who possess both professional skills and good ideological and political qualities. Based on this, this article provides a detailed analysis of the theoretical basis of the on-the-job course certification competition and ideological and political integration model. In order to achieve the educational goal of collaborative education in this model, effective strategies for optimizing and improving course design, innovating and enriching teaching methods are proposed, aiming to provide beneficial insights for vocational college education.

Keywords: Vocational colleges; on-the-job course competition certificate; Ideological and political integration; Comprehensive education mode; coal mine major

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Introduction

In order to promote the modernization of vocational education and achieve the improvement, enhancement, and empowerment of vocational education, the Ministry of Education of China, in conjunction with nine other departments, has formulated and issued the "Action Plan for Improving the Quality and Enhancement of Vocational Education". The plan mainly includes: implementing the fundamental responsibility of cultivating morality and talents, aiming to optimize the collaborative education model between schools and enterprises, and improve the overall quality of vocational education. As an important engineering discipline, coal mining plays a crucial role in meeting social energy needs and promoting local economic development. However, in order to cultivate professional talents with the necessary skills and knowledge in the field of coal mining engineering, it is necessary to optimize and reform the current education system.

1. Theoretical basis of the on-the-job course competition certification model

The theoretical basis of the on-the-job course certification model is to organically combine vocational education with practical work scenarios, in order to provide students with richer practical experience and skill training. Firstly, the on-the-job practical course emphasizes the importance of practical work experience. It combines classroom teaching with practical work situations in the professional field, enabling students to apply their knowledge and skills in real environments. This not only improves the practicality of learning, but also enables students to better adapt to future career requirements. Secondly, the on-the-job course certification model emphasizes the close connection between course content and actual work. The course design is based on industry needs, ensuring that

the knowledge and skills learned by students meet professional standards, which helps to cultivate students' professional literacy and practical operational abilities. This model introduces a practical certificate authentication system, which means that students can obtain relevant certificates after completing a certain amount of practical work experience, proving that they have professional abilities in a specific field. This not only helps students' career development, but also enhances their confidence and employment competitiveness.

2. The Theoretical Foundation of Ideological and Political Integration Education Model

The theoretical basis of the ideological and political integration education model is to integrate ideological and political education with professional education, in order to cultivate high-quality talents who possess both professional knowledge and skills, as well as good ideological and moral literacy. Firstly, the importance of ideological and political education in vocational colleges has been emphasized. It not only focuses on students' professional knowledge, but also focuses on cultivating their ideological and political awareness, social responsibility, and values, which helps to shape students' good moral character and social citizenship literacy. Secondly, the integration method of ideological and political courses with professional education has been proposed, which means that ideological and political courses no longer exist in isolation but are interconnected with professional courses. By integrating ideological and political content into professional courses through case analysis, thematic discussions, and other methods, students can not only learn professional knowledge but also think about moral and social issues. In addition, the combination of moral education and technical education becomes the core of the model. Schools not only focus on subject teaching, but also cultivate students' professional ethics and social responsibility, which helps to cultivate comprehensive talents who not only possess professional skills, but also have a high sense of social responsibility and good moral qualities. The theoretical basis of the ideological and political integration education model is to combine ideological and political education with professional education, emphasizing the cultivation of students' comprehensive qualities. This model aims to train students with professional knowledge and skills, as well as good ideological and moral qualities, to meet the comprehensive development needs of vocational college students, and also help to cultivate better social citizens.

3. Effective Strategies for the Comprehensive Education Model of "Post Course Competition Certificate+Ideological and Political Integration" in Vocational Colleges

3.1 Optimize and improve course design

In the teaching process of coal mining majors, the curriculum design of teachers is particularly important because it directly affects students' learning experience, mastery of professional knowledge, and future career success. Firstly, the course design needs to start from the core requirements of the coal mining profession, which includes a deep understanding of the actual situation of coal mining work, taking into account various factors such as safety, environmental protection, and technological innovation. Therefore, the course should revolve around professional knowledge in mining exploration, mining, processing, management, and other aspects. Secondly, course design should take into account the continuous development and changes in the coal mining industry, which means that the course content needs to be updated in a timely manner to reflect emerging technologies and best practices. Coal mining students should be exposed to the latest equipment, processes, and management methods to ensure their competitiveness after graduation. In addition, safety training plays an important role in course design. The working environment in coal mines is dangerous, so the course should include strict safety training, teaching students how to identify potential risks and take appropriate measures to protect themselves and colleagues. In addition, ideological and political education should be integrated with professional education. Coal mining majors not only require professional skills, but also possess good professional ethics and a sense of social responsibility. Therefore, the curriculum can be designed to include aspects such as ethics, laws and regulations, environmental protection, etc., in order to cultivate students' comprehensive qualities. Finally, course design should emphasize practicality. Students should have the opportunity to participate in practical mining work and apply theoretical knowledge to practice through on-site internships and project collaborations. This practical experience is crucial for their future career development. The curriculum design of coal mining majors should comprehensively consider industry needs, the latest technologies, safety training, and ideological and political education, in order to cultivate coal mining professionals with comprehensive qualities and practical experience, and lay a solid foundation for their future career success.

3.2 Innovation and Enrichment of Teaching Methods

It is crucial to adopt appropriate teaching methods in the teaching process of coal mining majors, as this helps students better understand and apply complex knowledge of coal mining engineering and master necessary skills. Firstly, problem-based learning is an effective teaching method. In this method, teachers propose challenging real-life problems and encourage students to actively

think and solve them. Secondly, experimentation and practice are the core of coal mine professional education. Students need to personally participate in laboratory work, mine field investigations, and simulation operations to transform theoretical knowledge into practical skills. This practical experience not only helps students better understand complex engineering concepts, but also cultivates their practical operational abilities. In addition, teamwork is also an important teaching method. Coal mine engineering usually requires multiple people to collaborate to solve complex problems, so cultivating students' teamwork ability is crucial. Teachers can organize group projects to help students solve challenging engineering problems together, thereby enhancing their collaboration and communication skills. In addition, case analysis is a method that helps students apply theoretical knowledge. By analyzing cases of actual mining projects or events, students can understand various situations that may be encountered in coal mining engineering and learn how to make wise decisions. Finally, the application of information technology and simulation software can also enrich teaching methods. Virtual mine simulators and computer-aided design tools can help students simulate different engineering scenarios and improve their problem-solving and decision-making abilities. The teaching methods of coal mining majors should combine theory with practice, emphasizing problem-solving, experimentation, and practical operation, cultivating students' teamwork and innovation abilities to ensure that they have comprehensive qualities to meet the challenges of coal mining engineering. These methods help provide students with a more comprehensive educational experience, thus laying a solid foundation for their future career development.

4. Conclusion

The ideological and political construction of the curriculum focuses on educating people, while the competition for vocational courses and certificates focuses on cultivating talents. In accordance with the requirements of national education reform, integrating the two and promoting the cultivation of students' comprehensive qualities has become an important content of the current reform and development of vocational colleges. However, some universities have attempted to combine the two educational models, which have been effective but still have some problems. Based on this, this article adopts strategies such as optimizing and improving course design, innovating and enriching teaching methods. These strategies not only help students better understand the theoretical knowledge of coal mine engineering, cultivate their professional ethics and social responsibility, but also enhance their practical operation and problem-solving abilities, thus laying a solid foundation for the career success of future coal mine engineers, To meet the growing needs of coal mining students.

References:

- [1] Wang Ying, Fu Hong, Dou Guoyi, et al. Research on the Comprehensive Education Model of "Post Course Competition Certificate+Ideological and Political Integration" in Vocational Colleges: Taking the Course of Traditional Chinese Medicine Regulation Technology as an Example [J]. *Health Vocational Education*, 2023,41 (11): 48-51
- [2] Zhang Xiuli. Reflection on Ideological and Political Curriculum and Curriculum Ideological and Political Education under the Integration Model of Post Course Competition and Certification [J]. *Journal of Heilongjiang Teachers' Development College*, 2022,41 (09): 63-65
- [3] He Dan, Ye Yangxiang. The Logic and Path of Collaborative Education between Ideological and Political Construction of Curriculum and Integration of Post Course Competition and Certification in Vocational Colleges [J]. *Vocational and Technical Education*, 2022,43 (08): 37-41