

A Practical Exploration on the Teaching Reform of Integration of Production and Teaching in College Students' Labor Education Curriculum

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Abstract: In March 2020, the Central Committee of the Communist Party of China and the State Council issued the "Opinions on Strengthening Labor Education in Colleges and Universities in the New Era," emphasizing the "need to fully recognize the new requirements for cultivating socialist builders and successors in the new era for strengthening labor education; to build a comprehensive labor education system that reflects the times; to conduct extensive labor education practical activities; to enhance the support and guarantee capacity for labor education; and to strengthen the organization and implementation of labor education." As a result, labor education has become a required course for students majoring in Test and Control Technology and Instrumentation. The course is divided into two parts: theoretical learning and practical learning. Due to the increasing social emphasis on labor quality education and its reflection in the key role it plays in solving complex engineering problems, the traditional "walking-horse-view" theoretical teaching method and "visiting-style" practical teaching method are no longer suitable for the new teaching needs in the contemporary context. Therefore, in order to improve the teaching quality and students' learning effect of the flexible and open knowledge, Changzhou Institute of Technology's Test and Control Technology and Instrumentation major has invited the technical directors of representative enterprises in the industry to conduct case analysis in class and on-site visits, achieving the goal of joint teaching reform between schools and enterprises. Bringing the latest industrial status and development trends of Test and Control Technology and Instrumentation technology into classroom teaching, it effectively improves the teaching quality and deeply cultivates students' labor awareness.

Keywords: Labor Education Courses; Integration of Production and Education; Transformation of Education.

1. Introduction

Labor education is an important component of China's socialist educational system, and directly determines the labor spirit, labor value orientation, and labor skills level of socialist builders and successors. For a long time, regions and schools have persisted in combining education with labor, achieving certain results in practice-based education. However, we must also see that in recent years, some college students have shown disrespect for labor achievements, lack of interest in labor, and inability to labor. To some extent, the unique educational value of labor has been ignored, and labor education has been diluted and weakened. In response, our school's Test and Control Technology and Instrument major has integrated labor education courses into the first semester of the curriculum. Through the study of labor education theory and practical knowledge, students can correctly understand the significance of labor and form correct worldviews, life views, and value systems. The labor education course for college students, as the starting course for freshmen, will directly affect their understanding of complex engineering problems. Based on this, this paper will discuss the teaching practice of college student labor education courses from the perspectives of theoretical teaching ability training and industrial and educational integration reform.

2. Teaching Practice of Integration of Production and Teaching

2.1. Curriculum Goal Setting

Course Goal 1: Cultivate the correct labor concept. Help students understand and form the Marxist labor view; learn to respect labor and ordinary laborers; firmly establish the idea that labor is glorious, noble, great, and beautiful. Form the qualities of honesty and trustworthiness, hard work, and cherish labor achievements; form good consumption habits and prevent waste.

Course Goal 2: Enhance labor ability. Through scientific labor literacy cultivation, shape the capabilities and qualities that new era laborers need, lay a foundation for future career development, assist in making correct career choices, cultivate innovative ability, and realize career aspirations.

Course Goal 3: Cultivate positive labor spirit. Learn about labor spirit, understand craftsman spirit, deepen the spirit of labor models; inherit the fine tradition of diligence and frugality and dedication of the Chinese nation; advocate the spirit of pioneering and innovation and perseverance of the times. Guide students to form good labor habits and qualities. Be able to participate in labor consciously, voluntarily, seriously and responsibly, safely, and persistently.

2.2. Course Main Content

2.2.1. Understand the Connotation of Labor

Clarify the origin and connotation of the Marxist perspective on labor, recognize the contemporary value of the

Marxist perspective on labor, understand the traditional labor forms and the new changes in labor forms, comprehend the labor forms in the new era, and distinguish between the socialization of labor and the socialization of laborers in the new era. Through the discussion of the case of the world's largest tonnage crawler crane developed by Xugong Group, master the relevant concepts of the Marxist perspective on labor. Cite the national-level golden course lectured by Professor Hu Daping from Nanjing University to introduce the significance of cultivating and practicing socialist core values in the new era, and summarize that scientific and technological labor is an important form of production labor. Present the case of Suzhou Precision Machinery Company working overtime to manufacture disinfection equipment during the epidemic period to summarize the relevant concepts of advanced industrial production labor and intelligent manufacturing production labor. Discuss the new type of production labor in innovation and entrepreneurship, and further explore how labor education can be applied to complex engineering problems.

2.2.2. Recognize the Value of Labor

Highlight that labor promotes human evolution and development, recognize the causes, connotations, and forms of labor creating wealth, understand how labor creates human civilization and drives social progress, and comprehend that labor can foster morality, enhance intelligence, strengthen the body, and cultivate aesthetics. Based on the fundamentals of this discipline, explore the organic integration of traditional engineering and the humanities, and thereby conduct a brainstorming discussion on the historical background of labor promoting human development. Thus, introduce the concept of labor creating wealth and understand the development process and phased significance of labor forging dreams in China. Cite the example of the delivery guy in Tayilake Village to clarify that labor creates spiritual wealth and apply it to one's academic and career planning. Refer to the case of Yuan Longping, the Father of Hybrid Rice in the World, to explore the role of labor in scientific and technological progress. Clearly establish that labor holds significant value for the comprehensive development of individuals and apply it to practical learning and life.

2.2.3. Forging Labor Quality

Point out the value of devotion, recognize that hard work is an excellent personal quality, understand the labor value of honesty and trustworthiness, understand the labor significance of unity and cooperation, and cultivate the labor consciousness of unity and cooperation. By discussing the research and development cases of domestic medium-sized passenger aircraft C919, we can master the concept of concentration. Citing the case of the father of Chinese helicopter, this paper introduces that devotion is a kind of long-term persistence, and summarizes the value and significance of devotion. Lead to the case of Xinjiang Tianye Co., Ltd. graduates, summarize the concept of hard work. Discuss the role and significance of honesty and trustworthiness, and further explore how to apply the labor meaning of solidarity and cooperation to complex engineering problems.

2.2.4. Promote the Spirit of Work

It points out the cultivation of the labor spirit of diligence, frugality, struggle, innovation and dedication, recognizes the connotation and times value of the craftsman spirit, understands the generation and connotation evolution of the

model worker, and understands The Times value of the labor spirit. Citing the case of Zhang Guimei who sticks to the three-foot platform, this paper discusses the labor spirit through brainstorming. This leads to the relevant concepts of craftsman spirit, and understand the value of The Times of craftsman spirit. Citing the case of fitters in Shenyang Aircraft Industry Co., Ltd. of Aviation industry, this paper defines the spirit of model workers and applies it to their own academic and career prospects planning. This paper discusses how to practice the spirit of model workers by citing the example of model workers in Guangzhou. It is clear that the spirit of model workers is intrinsically connected with the core values of socialism, and it is applied to practical study and life.

2.2.5. Ensure Labor Safety

Point out the basic knowledge of labor safety hazards, recognize the main manifestations and causes of violations of labor safety regulations, understand the concept and significance of labor protection, understand the prevention of labor safety hazards, and understand the implementation of labor safety regulations. Through discussing the case of Songzao coal mine fire accident in Chongqing, this paper has grasped the concepts related to labor safety. This paper introduces the basic knowledge of labor safety hazards and summarizes the common situations leading to safety hazards by citing the case of ice sculpture Pavilion in Taitai Mountain Scenic Area. The case of major production safety accident of Gansu Baiyin Hongda Aluminum Profile Co., Ltd. is introduced, and the related concepts of labor safety regulations are summarized. Discuss the concept and significance of labor protection, and further explore how violations of labor safety rules can be applied to complex engineering problems.

2.2.6. Abide by Labor Laws and Regulations

Clarify labor relations and honest labor, clearly understand the conclusion, performance, contact and termination of labor contracts, understand the rights of workers, understand the common situation and handling of labor disputes, and recognize respect and safeguard intellectual property rights. Citing the labor contract dispute cases of college students, this paper discusses labor relations and the spirit of contract through brainstorming. This leads to the related concepts of labor contract, to understand the performance and change of labor contract. Citing the case of students' rights protection for short-term work in holidays, the author clearly defines the way to deal with labor disputes, and applies it to his own academic and career prospect planning. The definition and classification of intellectual property rights are discussed by citing the cases of patent ownership disputes in universities. Clarify the measures of intellectual property protection, and apply them to actual study and life.

2.2.7. Enhance Professional Labor Literacy

It Points Out the ways and development of improving labor literacy, clearly recognizes how to establish, clarify and enhance occupational labor consciousness, understands how to cultivate basic vocational ability, understands how to exercise vocational innovation ability, and understands why to obtain vocational qualification certificate. Through discussing the case of Songzao coal mine fire accident in Chongqing, this paper has grasped the concepts related to labor safety. Citing the case of Gao Fenglin, a great country craftsman, this paper introduces the basic knowledge of occupational labor and occupational classification, and summarizes how to promote labor literacy and promote career

development. Introduce the case of Chinese captain, summarize the relevant concepts of professional responsibility consciousness. Discuss professional ethics and further explore how to exercise professional innovation ability to apply to complex engineering problems.

2.2.8. Labor Supports the Chinese Dream

It is pointed out that labor makes the country rich and strong, recognizes that labor promotes national rejuvenation, understands that labor enhances the happiness of the people, understands and learns the ability to work, practices the spirit of work, understands the value of labor, and builds a better future. Citing the case of Feng Yinghui, a construction project manager on the East and west artificial islands of the Hong Kong-Zhuhai-Macao Bridge, this paper discusses the relationship between the workers' bucket and national prosperity, national revitalization and people's happiness through brainstorming. This leads to the related concepts of labor to promote national rejuvenation, and to understand that labor stimulates scientific and technological innovation. Citing the case of Pan Renyong, a village cadre resident in Tongren City, Guizhou Province, this paper makes it clear that labor contributes to cultural innovation and applies it to his own academic and career planning. Citing the case of Wang Wenbiao, a sand control man in Kubuqi Desert, this paper discusses how labor helps poverty alleviation. Make it clear that labor contributes to a bright future, and apply it to practical study and life.

2.3. Summary of Teaching Practice

Case introduction, analysis and discussion, and master the knowledge points of the class. For example, through the discussion of chronic benzene poisoning cases, the importance of labor protection was analyzed and clarified. On the other hand, from the perspective of assessment, students conducted logical analysis of cases under the guidance of teachers and were only interested in the stories that happened in the cases, but they were poor in completing logical analysis questions independently during the assessment, especially the subjective analysis was not in place, and only some students could accurately carry out correct logical analysis according to the textbooks. In particular, the overall length of the topic involves a long case description, and some students cannot even understand the topic correctly. Subsequently, it is planned to increase the number of group discussions, which can have the effect of strengthening ability training.

2.4. Business Tutor Teaching Practice

As a teaching reform course integrating industry and education, we invited the general manager of Changzhou Wuji Management Consulting Co., LTD., the 99 alumni of the School of Economics and Management of our University and other technical directors of representative enterprises to give courses. The class hours taught by enterprise experts accounted for 15% of the total courses. Especially in the course of quality management system audit, students responded warmly to the cases that happened in the actual factory and interacted frequently.

2.5. The Application of Ideological and Political Elements of the Curriculum

It is integrated with moral education, intellectual education,

physical education and aesthetic education, closely combined with economic and social development and the actual life of students, actively explore labor education models with Chinese characteristics, innovate the system and mechanism, pay attention to educational effectiveness, realize the integration of knowledge and action, and promote students to form a correct world outlook, outlook on life and values. In addition, the main ideas of the course fully reflect the application of relevant basic principles of Marxism, such as dialectical relations in virtual cases, to promote national confidence, self-esteem and pride [4]; Explain the difficulties encountered in scientific research problems and their solutions, cultivate students' interdisciplinary thinking, use measurement and control technology to plan their own academic and career development blueprint, and constantly advance to the breadth and depth of science and technology for the world's scientific and technological frontier, the main economic battlefield, the major needs of the country, and the life and health of the people [5]. Quoting a large number of practical cases, mastering the scientific method of labor, with a clear goal of stepping out of the school gate, entering the society, and becoming a qualified builder and successor of the socialist cause.

3. Conclusion

Through the practice of integrating production and education teaching in college students' labor education courses and the teaching method combining enterprise experts and campus theories, this paper carries out reforms from the two aspects of curriculum objectives and curriculum system establishment, cultivates students' ability to analyze complex engineering problems, enables students to master the ideas and methods of labor, and considers the internal and external social responsibilities faced by college students. Strengthen the concept of sustainable development of the industry.

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