

Pathways for the Construction of Labor Education Courses for Students Major in Measurement and Control

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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 Comprehensively Strengthening Labor Education in Primary and Secondary Schools in the New Era, emphasizing that "fully understand the new requirements for strengthening labor education in the new era to train socialist builders and successors; Comprehensively build a labor education system that reflects the characteristics of The Times; Carry out labor education practice extensively; Efforts to improve labor education support and security ability; Effectively strengthen the organization and implementation of labor education." Therefore, college students' labor education has become a compulsory course for the major of measurement and control technology and instrument. The course is divided into two parts: theoretical study and practical study. In view of the increasing emphasis of the society on college students' labor quality education and the key role of mapping in solving complex engineering problems, the traditional "passing through" theoretical teaching methods and "visiting" practical teaching methods are no longer suitable for the new teaching needs in the contemporary background. Therefore, in order to improve the teaching quality and students' learning effect on this malleable and open knowledge, Changzhou Institute of Technology invited technical directors of representative enterprises in the industry to conduct classroom case analysis and field visits of relevant knowledge, so as to realize the teaching reform of production-education integration in school-enterprise joint teaching. The latest industry status and development trend of measurement and control technology and instrument technology will be brought into the classroom teaching, effectively improve the teaching quality, and deeply cultivate students' labor consciousness.

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. Labor Spirit in the Measurement and Control Professional Attribute Connotation

Furthermore, the main idea of the course fully reflects the application of relevant basic principles of Marxism, such as the dialectical relationship in virtual case studies, enhancing national confidence, self-esteem, and pride [4]; explaining the difficulties encountered in scientific research and the solutions to them, cultivating students' interdisciplinary thinking, and using measurement and control technology to plan students' own academic and career development blueprint, aiming at the frontiers of world science and technology, the main battlefield of the economy, the major needs of the country, and the health of the people's lives, constantly advancing towards the breadth and depth of science and technology [5]; citing a large number of actual cases to master the scientific method of labor, with a clear goal of stepping out of the school gate and into society, becoming qualified builders and successors of the socialist cause. The framework of this course is as shown in Figure 1.

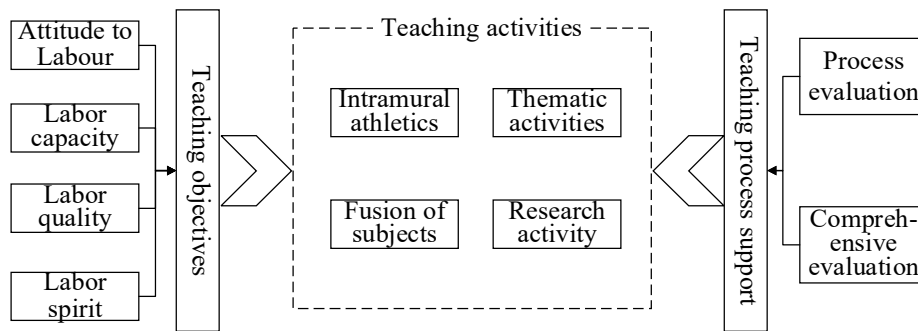


Figure 1. Framework of Labor Education Courses

3. Implementation of Labor Education Curriculum in Measurement and Control Specialty

There are three course objectives in this course. Course objective 1 and 3 are evaluated as normal value, while course objective 2 is evaluated as good value. In the assessment process, the final exam and practical report have relatively high evaluation value, while the evaluation value of coursework is relatively low. Some students still plagiarize their assignments.

Compared with the class course objective achievement survey, all objectives are achieved well, but there is a large gap between the evaluation value of the objectives and the actual achievement, especially the low evaluation value of the post-class assignment objective. The reason is that the previous course was online teaching, and it was faced with freshmen. It was difficult to complete face-to-face communication and class discussion (some students did not even know how to enter the online class at the beginning). In addition, because this course uses the network classroom provided by the textbook to assign homework and answer questions, but the cloud classroom is chaotic and students do not master the operation method of the system, they feel good, but the completion of homework is poor.

Combining the assessment and questionnaire survey results shows that:

For course objective 1, the student's score rate in the assessment is normal, and the overall achievement situation is normal. This shows that students can accurately describe and explain the relevant definitions and meanings of Marxist labor view, and apply them to the analysis and discussion of actual cases.

For course objective 2, the student's score rate in the assessment is high, and the overall achievement situation is good. This shows that students can understand how to cultivate their own scientific labor literacy, especially after labor practice, everyone's feelings are quite profound, mastered how to shape the labor ability and quality required by new era college students, laying a foundation for their future career development, helping to make correct career choices, cultivating innovative ability, and achieving career ideals.

For course objective 3, the scoring rate of students' assessment is normal, and the overall achievement is normal. Students can accurately describe the relevant definitions and meanings of labor spirit, and they can understand the cases cited by teachers in class. However, in the face of new problems in the exam, students cannot draw an analogy and make accurate analysis and judgment based on the actual situation, or the analysis is not thorough.

4. Construction Path of Labor Education Course in Measurement and Control Specialty

(1) Develop a labor education curriculum plan: Based on the age and interests of students, develop a suitable labor education curriculum plan for them. This can include various activities and tasks such as gardening, handicrafts, cleaning, and cooking to cultivate students' hands-on skills and team spirit.

(2) Conduct practical education activities: Organize students to participate in various practical education activities such as community service, volunteer activities, and field trips. These activities can allow students to experience the hardships and joys of labor firsthand, while also improving their sense of social responsibility and citizenship.

(3) Establish an evaluation mechanism: Establish a scientific evaluation mechanism to evaluate and provide feedback on the labor tasks completed by students. Evaluation can include self-evaluation, peer evaluation, and teacher evaluation from multiple perspectives to fully understand the students' learning achievements and areas of improvement.

(4) Introduce school-enterprise cooperation model: Cooperate with relevant enterprises to introduce actual work tasks and projects, allowing students to learn and master practical job skills in practice. This can improve students' employability and also provide qualified personnel for enterprises.

(5) Organize labor skill competitions: Organize various labor skill competitions to stimulate students' enthusiasm and creativity. You can set up different competition projects, such as handicraft making, cooking, and gardening, to let students showcase their talents and skills.

(6) Strengthen teacher training: Strengthen training and guidance for teachers to improve their teaching level and professionalism. You can invite industry experts or enterprise leaders to give lectures or organize teachers to exchange and discuss to enhance teachers' teaching level and practical ability.

By using these methods, you can effectively promote the implementation of college students' labor education courses, cultivate students' labor concepts, practical abilities, and social responsibility, and promote their comprehensive development.

5. Conclusion

The labor education course of Changzhou Institute of Technology is an important position to inherit the spirit of labor, spread the red gene, and spread the party building and patriotism, and is the embodiment of the spirit of labor, the

spirit of model workers and the spirit of artisans at the educational level. Starting from the professional knowledge of measurement and control, through the construction of college students' labor education courses, to carry out labor education in an all-round way, guide students to establish correct labor values, train students to respect labor, love labor, and take root in the border construction of labor spirit, so as to improve the quality of education.

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