

Research on the development and practice of loose leaf textbook of integrated wiring based on the integration of expertise and thinking

Tingting Luo

Zhejiang College of Security Technology, Wenzhou, Zhejiang, 325016

Abstract: in view of the problems existing in the traditional vocational education textbooks, such as the derailment from the actual job demand, the lack of professional elements, and the lack of attention to the cultivation of Ideological and political ability, this paper proposes the development of loose leaf workbook type textbooks for generic cabling based on the integration of professional and ideological and political education. This paper is demand-oriented, based on the requirements of enterprise technical skills, focusing on the integration of major and ideological and political education, and proposes the dual cooperation between school and enterprise, the ways of integrating professional elements and ideological and political elements.

Key words: generic cabling course; Loose leaf textbooks; Workbook type teaching materials; Professional ideological and political integration training

1 course background and existing problems

1.1 Course background

Whether it is the adjustment and enrichment of economic structure and social form, or the development of new technology and the emergence of new industries, it puts forward different requirements and challenges to the field of vocational education. In order to achieve high-quality development, vocational education must meet the requirements of current industry knowledge and skills, and must keep up with the development of science and technology.

Generic cabling is a professional core course of security technology major. It is a practical course, which mainly cultivates students' knowledge and skills of generic cabling project design, construction, testing and acceptance. However, the traditional teaching materials of generic cabling are mostly based on the subject knowledge system, which can not meet the technical skills requirements of current students. Therefore, the reform of the teaching material of generic cabling is a necessary task for the major of security.

1.2 existing problems

The development of textbooks for traditional professional courses of vocational education mostly refers to the setting of professional textbooks for general education. Based on the disciplinary knowledge system, the contents of textbooks for general education are compressed and adapted. Less consideration is given to the knowledge and skills required by the actual work position of the enterprise, lacking professional elements and unable to reflect the characteristics of vocational education.

Although the course of Ideological and political education is relatively popular in recent years, it is basically the ideological and political elements that teachers add in class, rather than directly adding ideological and political elements in textbooks. At present, the vast majority of vocational education textbooks are knowledge-based, supplemented by practical operation, which mainly inculcate knowledge and cultivate skills for students, but few textbooks can take into account the cultivation of students' values and lack the cultivation of Ideological and political ability. Therefore, how to integrate professional and ideological and political elements into professional textbooks and develop textbooks that are suitable for students' personalized development and with appropriate difficulty is an important aspect of the "three education" reform, and also a key element of the current vocational education textbook reform.

In 2019, the implementation plan of national vocational education reform and the measures for the management of teaching materials in Vocational Colleges issued by the State Council and the Ministry of education respectively set clear requirements for vocational education teaching materials, recommend that teaching materials be developed by school enterprise cooperation, encourage teachers to use loose leaf and work manual teaching materials, and establish information resources supporting teaching materials. In 2020, the Ministry of education and other nine departments jointly issued the action plan for improving the quality of Vocational Education (2020-2023), which also put forward requirements for strengthening the construction of vocational education textbooks, requiring the creation of new forms of textbooks that meet the characteristics of students in vocational colleges, and the implementation of loose leaf, work manual, and Integrated media teaching materials. It can be seen that the research and development of loose leaf textbooks are of great significance in the "three education" reform of vocational education teachers, textbooks and teaching methods.

2 related work

At present, there are still some problems in vocational education textbooks, such as derailment from the actual job demand, lack of work process content, repeated construction and so on, the content of textbooks lacks the latest technology, technology and standards, and the update speed is slow. Based on the teaching reform requirements of the integration of production and education and the combination of work and study, some scholars proposed that the loose leaf workbook textbook should not only refer to the compilation method of the enterprise's work manual, but also conform to the teaching ideas of each course, so as to realize the matching of learning standards, learning

tasks and learning processes with work standards, work tasks and work processes. At present, the more common workbook type textbooks are “using micro lecture to learn computer assembly and maintenance course” edited by zouchengjun and others, and “short video operation and case analysis” edited by houdelin. The more common loose leaf type textbooks are “mechanical drawing and CAD” edited by Wang Aibing and others, and “ERP management accounting post comprehensive training” edited by gaocuilian and others.

As the core course of security technology, generic cabling course not only needs to cultivate students’ professional skills, but also needs to cultivate students’ Ideological and political ability. However, the traditional textbooks adopt the arrangement of the subject knowledge system, ignoring the cultivation of students’ professional skills and ideological and political ability, which leads to the lack of professional elements and ideological and political elements in vocational education textbooks, and can not meet the current social demand for compound talents. Therefore, in the teaching of generic cabling course, there is an urgent need to develop a professional and ideological and political Integrated generic cabling workbook type textbook suitable for students’ cognitive level and personality development needs.

3. Overall design ideas for textbook development

The loose leaf workbook textbook of generic cabling proposed in this paper is based on the requirements of enterprises’ technical skills and the assessment contents of generic cabling engineers, the teaching material system is developed and designed with dual cooperation, focusing on the integration of specialty and ideological and political education. The structure of the workbook textbook is set as the “project task” mode, and the ideological and political elements are integrated into the appropriate content, forming a professional and ideological and political integration of vocational education talent training mode.

3.1 School enterprise dual cooperation development

Integrated wiring loose leaf workbook textbooks are developed by school enterprise cooperation. Combined with the assessment content of integrated wiring engineers, enterprise personnel provide the information table of integrated wiring courses including professional post and skill requirements, professional standards, quality requirements, work tasks and other professional ability requirements, The “double qualified” teachers of the school transform the post information according to the teaching and post requirements. At the same time, according to the source of students in most higher vocational colleges, select the work tasks that are appropriate in difficulty and easy for the vast majority of students to learn and master as teaching projects, and construct the textbook system design with project description and requirements - learning objectives - task implementation - relevant knowledge points - task evaluation as a closed-loop project.

(1) Enterprise personnel. The dual cooperative development between colleges and enterprises puts forward higher requirements for the cooperation between colleges and enterprises. Enterprises not only need to provide information such as job information table, project cases and project site data, but also need to participate in the shooting of online courses and the compilation of teaching materials. In the process of compiling textbooks, it is necessary to comply with not only the relevant national standards, but also the service standards and workflow of relevant industries or enterprises. At the same time, enterprise personnel participate in the online course shooting or shooting the enterprise project construction site operation video, so that both the operation standards and operation technical skills can be based on.

(2) “Double qualified” teachers. Teachers of the textbook development team should be “double qualified” teachers with more than 2 years of working experience. Such teachers not only have rich working experience in enterprises, but also have strong practical skills, rich theoretical knowledge and good teaching ability. At the same time, it has obvious advantages in communicating with enterprise personnel in the development of teaching materials, so that the developed teaching materials can meet the enterprise workflow.

3.2 Integrate professional elements

In the integrated wiring textbook, the content is divided into four items according to the job requirements: engineering design, engineering construction, engineering test and engineering acceptance. The project also includes several tasks, such as engineering construction, including the teaching of twisted pair termination, distribution frame installation, pipe slot system installation, twisted pair laying, optical cable laying and other tasks. At the same time, teaching resources such as skill competition videos, technical operation videos, enterprise design drawings, on-site construction materials related to the project or task content are inserted into the corresponding positions of the teaching materials, which can not only enable students to preview before class and review after class, expand students’ horizons and knowledge, but also enable students to understand the real situation of the construction site, So as to make up for the lack of traditional teaching materials in the connection of professional posts.

For each project, it includes project description, tasks, learning objectives, precautions and project objects, which are presented in the form of one or more pages in the textbook. “Project description” is used to describe an overview and what needs to be done. “Task” is used to describe the tasks to be completed for the project. “Learning objectives” is used to describe the knowledge, skills, literacy and ideological and political objectives of the project. “Project object” is used to show the effect after the completion of the project, and to introduce the functions of the whole project as a whole. The actual engineering finished products will be inserted here. “Precautions” is used to describe matters needing attention during the operation and implementation of the project, such as construction safety, material and equipment safety, etc.

For each task, it includes task content, task steps, relevant knowledge points, task evaluation elements, thinking and notes, which are presented in the form of one or more pages in the textbook in the way of “integration of theory and practice”. “Task content” is used to describe what the task needs to complete, that is, what work needs to be done. “Task steps” breaks down each step of the task in detail, showing the operation steps and the use of tools. Here, the technical operation video and on-site construction data will be inserted. “Relevant knowledge points” is used to describe the content of knowledge points corresponding to this task, such as tool use, operation standards, etc.,

which can be inserted into the micro lecture video. “Evaluation elements” correspond to task steps one by one, and a standard is determined for the operation specification of each step. “Thinking and taking notes”, let students write down their mistakes or experiences in the operation for future reference.

3.3 Integrate ideological and political elements

Ideological and political content is integrated into the integrated wiring textbook, including five theme education of “service spirit”, “construction safety”, “team spirit”, “craftsman spirit” and “professional ethics”. The ideological and political theme corresponds to the project, “service spirit” corresponds to the generic cabling engineering design project, “construction safety” and “team spirit” correspond to the generic cabling engineering construction project, “craftsman spirit” corresponds to the generic cabling engineering test project, “professional ethics” corresponds to the generic cabling engineering acceptance project, combining the ideological and political elements with the teaching content, So as to make up for the lack of Ideological and political ability in traditional textbooks.

The integration of curriculum ideological and political elements in the textbook is mainly reflected in the footer of the textbook. The curriculum ideological and political theme corresponding to the project or current task is displayed in the footer of the project description or task description, and the ideological and political case corresponding to the theme will be displayed below the theme. On the subsequent page of the textbook, only the ideological and political theme is displayed. If there is a course Ideological and political case with high correlation with the textbook content, it can also be displayed in the footer of the current page of the textbook. The description of the ideological and political case should be concise and should not be too lengthy.

4 Conclusion

The reform of teaching materials has the most direct impact on the results of the whole teaching. However, due to the time and energy spent on the reform of teaching materials, most teachers tend to reform teaching methods, curriculum and ideological and political reform, resulting in the relatively weak reform of teaching materials and in-service education. Generic cabling loose leaf workbook textbook is a composite textbook developed based on the needs of enterprises’ technical skills and the joint efforts of “double qualified” teachers and enterprise personnel. It not only conforms to the laws of vocational education and teaching, but also matches the knowledge and skills of professional posts. Because it is a loose leaf type, when the relevant standards or skills change, the corresponding parts of the teaching materials can be replaced, so as to keep up with the national standards and industrial norms at all times.

The textbook can not only be used as the course textbook of generic cabling course in vocational colleges, but also be taken to the real working environment as a work manual. The textbook contains the notes recorded by yourself and the operations that you are easy to ignore or make mistakes, which is conducive to students’ quick starting at work and avoiding the same mistakes. And the teaching materials include the education of Ideological and political elements, pay attention to the cultivation of students’ Ideological and political ability, and form a compound vocational education talent training mode of professional and ideological and political integration.

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Research on the innovation path of curriculum ideological and political infiltration into tourism management major in Colleges and Universities

Xinran Wang

(Qinghai Normal University, Xining, Qinghai 810000)

Abstract: professional courses and ideological and political courses have become the main theme of the teaching reform of various majors in Colleges and universities. For the tourism management major in Colleges and universities, the infiltration of Ideological and political education in the whole process of professional construction and teaching is conducive to the comprehensive cultivation of students' patriotism, and enhance their sense of responsibility and loyalty, So as to promote the rapid and vigorous development of China's tourism. From the current situation, there are still a series of problems in the infiltration of Ideological and political education into tourism management major in Colleges and universities, which affect the ideological and political education and professional teaching effect. Therefore, it is necessary for this paper to analyze and discuss the innovation path of Ideological and political course infiltration into tourism management major in Colleges and universities from the teaching objectives and talent training plan of Tourism Management Major in Colleges and universities, in order to provide beneficial references for promoting the deep integration of Ideological and political course and Tourism management major, and escort the ideological and political construction of Tourism Management Major in Colleges and universities.

Key words: curriculum ideological and political education; Colleges and universities; Major in tourism management; Innovation path

Introduction

In 2016, the concept of curriculum ideological and political education was proposed for the first time. Since then, more and more colleges and universities intend to infiltrate the concept of curriculum ideological and political education in the process of education and teaching, truly creating a new situation for the development of higher education. Especially with the increasingly prominent position of tourism in the national economy, the tourism management major in Colleges and universities is bound to pay special attention to the cultivation of students' good national spirit through the effective channel of major, enhance their initiative to inherit and carry forward traditional culture, and strive to cultivate more tourism practitioners who are suitable for the development of tourism in the new era, To lay a solid foundation for promoting the prosperity and development of China's tourism industry.

1 The importance and feasibility of curriculum ideological and political education infiltrating into tourism management major in Colleges and Universities

1. Importance

(1) conducive to promoting students' all-round development

At present, some college students' political literacy is weak and their sense of responsibility is not strong. No matter how they think or do things, they can not always put the collective interests above their personal interests. These students can not adapt to social development and meet the needs of socialist construction. In view of this, in order to promote the all-round development of students and meet their internal needs for healthy growth, colleges and universities must put the ideological and political construction of courses on the agenda, so that students can be well nurtured in the process of professional learning. At the same time, in the context of economic globalization,

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About the author: luotingting (1989 -), female, from Wenzhou, Zhejiang Province, teaching assistant, master, research direction: teaching research, image processing.