

Research on the Integration of Craftsmanship Spirit and Cultivation of Professionals in Architectural Design Technology

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Abstract: It is very important for practitioners to own craftsmanship spirit, which refers to the internalization and improvement of practitioners in their personality, ability, attitude and technology. Architectural design technology major is very popular among the society. In the new era, it is necessary to innovate talent training mode, organically integrate the craftsmanship spirit and cultivation of professionals in architectural design technology, and continuously meet the high demand of the society for professionals of this major. This paper mainly analyzes the organic integration of craftsmanship spirit and cultivation of professionals in architectural design technology. The purpose is to continuously improve the teaching quality of this major and cultivate more outstanding applied talents of architectural design for the society.

1. Introduction

Architectural design technology is a very popular major in the society today. With the continuous development of China's construction industry, the demand for talents in this field is also increasingly growing. For colleges and universities, there is a need to give full play to the role of cultivating professionals, and actively incorporate the craftsmanship spirit into the talent training mode of architectural design technology major. In the process of organic combination, they can cultivate professionals who are practical and realistic, strive for improvement and sacrifice themselves for the construction industry.

2. Connotation Analysis of Craftsmanship Spirit

2.1 More Dedicated Professional Attitude

Dedicated professional attitude is one of the contents of craftsmanship spirit. The so-called more dedicated professional attitude means that practitioners should be down-to-earth, cautious, strictly restrict their own behavior, fully love their posts, and do their best to do every job that they need to do.

2.2 More Focused Professional Style

Focused professional style is another content of craftsmanship spirit. The so-called more focused professional style means that practitioners should be persistent while doing something, concentrate their attention as much as possible, and keep the spirit of perseverance. In addition, focused professional style also refers to that practitioners should constantly explore a certain skill in their own fields, and have the determination and courage to become the leader of the fields or such skills^[1].

2.3 More Professional Skills

The so-called more professional skills mean that the practitioners should have professional knowledge and skills on the work they are engaged in, and can not simply make the requirements towards their own knowledge and skills just in terms of the standard for qualification, but to further

improve their own flexible grasp of professional knowledge and skills.

2.4 Progressive Professional Innovation

Keeping improving means that practitioners should not be arrogant and impetuous in their current work, deal with any work only in an orderly way, and strive to innovate on the basis of focusing on details and being careful.

3. Path Analysis of Integrating Craftsmanship Spirit into Architectural Design Technology Specialty under the New Situation

3.1 Innovate the Original Education Concept and Build a Sound Education System

First, schools should adhere to the teaching principle of combining talents and skills with every possible means, tough and soft. The education in China is influenced by traditional utilitarian teaching concept, which leads to the lack of craftsmanship spirit in the talents cultivated. In the new era, if we want to cultivate more professional talents with craftsmanship spirit, we need to innovate the original education concept. Schools should strictly grasp the two indexes of “skills” and “hard”, and fully infiltrate the culture and tradition of craftsmen to the students majoring in architectural design technology. In addition, humanistic quality, professional ethics, professional spirit and other indicators should be taken into consideration in teaching evaluation so as to promote the continuous implementation of the concept of cultural education and build a teaching atmosphere full of craftsmanship spirit. Aiming to helping students majoring in architectural design technology to further master craftsmanship spirit, schools can hold corresponding architectural design lectures, follow the development trend of the construction field, popularize new technology and new equipment to students, and teach students more about the technology and knowledge of the complete industrial chain. When popularizing the process of forming a certain craftwork to students, schools can lead students to have a more comprehensive understanding of the qualities of craftsmen, such as specialization, dedication, excellence and concentration; second, what schools to do is to improve the education system and expand the space for career development. The main position of cultivating talents with craftsmanship spirit is vocational colleges. However, now there are generally the characteristics of mechanization and terminal in talents training mode of vocational colleges in China, which mainly shows that there is no perfect promotion space for skilled talents. Therefore, in view of this, we need to continuously improve our education system, actively bring craftsmanship into the school education system, and constantly broaden the career development.

3.2 Build School-Enterprise Cooperation Mode to Optimize Talent Training Program

On the one hand, there is a need to strengthen the cooperation between schools and enterprises, and strive to inherit apprenticeship. In the context of accelerating pace of modernization, the traditional apprenticeship gradually faded out of education. Apprenticeship is an effective way to cultivate talents with craftsmanship spirit. In the new era, schools need to reintroduce apprenticeship and actively cultivate professionals with craftsmanship spirit. In order to actively promote the school-enterprise integration education mode, it is necessary to deepen the cooperation between schools and enterprises, and the education department should formulate sound supporting policies. Especially when the modern apprenticeship has created a good way for the cultivation of skilled talents, it can promote the students of architectural design to highly integrate their professional spirit and vocational skills under the mode of combining production, teaching and research. The measures above can further intensify students’ sense of social responsibility and improve their innovative consciousness and ability. It can be seen that school-enterprise cooperation mode and modern apprenticeship are the effective ways to promote the effective integration between craftsmanship spirit and talent training mode of architectural design. On the other hand, the talent training program should be continuously optimized to actively push for the reform of teaching mode. The talent training program of architectural design technology in schools needs to be improved and optimized at both the macro level and the micro level. Courses related to

craftsmanship spirit can be added to the major of architectural design. In order to promote students to combine their own skills and professional spirit, teachers can focus on cultivating students' learning habits of self-study in teaching. At the same time, teachers need also strengthen the guidance of students' career development, actively introduce the current industry development situation, employment trend and industry benchmark to students, and guide them to establish professional ideal with craftsmanship spirit ^[2].

3.3 Strive to Improve the Quality of Teachers and Expand the Excellent Teaching Staff

For one thing, strive to improve the professional ability of teachers. Based on the training mode of architectural design professionals with the craftsmanship spirit, teachers need to strive to improve their own professional level. Teachers should combine their rich theoretical knowledge with specific practice, and constantly meet the requirements of “double qualification” teachers under the training mode of talents with craftsmanship spirit. Considering the lack of craftsmanship spirit consciousness of teachers in architectural design technology in China, we can build a “double qualification” teacher training base under the joint cooperation of schools and enterprises, and actively encourage technical experts in enterprises to work as part-time teachers in schools. In this teaching mode, enterprises and teachers can be closely combined, which can deepen teachers' understanding of the connotation of craftsmanship spirit, promote themselves to explore new teaching methods in the future teaching, and strive to cultivate architectural design professionals with craftsmanship spirit. For another thing, strengthen the cultivation of teachers' professional quality and practice the craftsmanship spirit. Because teachers are powerful practitioners of craftsmanship spirit, schools need to carry out vocational training for teachers regularly and provide more learning platform for teachers, so teachers can better practice craftsmanship spirit on the basis of enhancing their own professional quality. If the teachers of architectural design technology are lack of professional dedication and talents-cultivation consciousness, the students trained are generally short of craftsmanship spirit. To solve this problem, it is necessary to constantly expand the excellent teaching staff, lay emphasis on the targeted training of teachers in this major, carry out teaching tasks with the help of modern science and technology, and continuously enhance the overall scientific research level and teaching ability of the school ^[3].

4. Specific Training Program of Architectural Design Technology Professionals Based on Craftsmanship Spirit

4.1 Carry out Teaching Tasks with the Help of Modern Apprenticeship

Modern apprenticeship is vital to the cultivation of architectural design professionals with craftsmanship spirit. However, it is difficult to realize the one-to-one apprenticeship teaching mode in the actual teaching. Therefore, with the help of modern teaching equipment, teachers can select some excellent students who like architectural design very much from each session of architectural design technology specialty and help to build a master-apprentice relationship between excellent technical personnel of enterprises and students. Besides, teachers can arrange for students to learn skills in the enterprise where their masters work, to conclude their learning experience in the forms of pictures, videos or text materials, and to make a discussion with the whole class after the practice. This teaching mode can promote to effectively integrate craftsmanship spirit into the training mode of architectural design technology professionals ^[4-5].

4.2 Combine Full Time and Part-Time Teachers in Collaborative Teaching

Schools can invite talents who have made great achievements in architectural design to work as part-time teachers, which can make up for the shortage of teachers with practical skills in the teaching of architectural design technology. Part time teachers and professional teachers cooperate with each other to provide students with more comprehensive theoretical knowledge of architectural design and the latest design experience. In theory-oriented courses, we can adopt the mode of combining live lectures with face-to-face teaching, and invite excellent technical personnel from

enterprises to assist in teaching. Under this teaching mode, students can master and understand the knowledge more deeply. The full-time teachers also need to consult the outstanding craftsmen in the field of architectural design modestly, and constantly improve their own practical teaching ability.

4.3 Construct Training Center for Architectural Design

The skill training of students is essential in the talent training mode based on the craftsmanship spirit. Because practical training is the key to skills development, schools need to build a perfect architectural design training center so that students can carry out architectural design training there. In addition, the training center also needs to be equipped with multimedia teaching equipment, which can record the teaching videos of the teaching process of famous craftsmen in the classroom, so as to better conduct corresponding education^[6-7].

5. Conclusion

In summary, talents with craftsmanship spirit are urgently needed talents in the society today. Schools should base the training of architectural design technology professionals on the craftsmanship spirit, actively integrate these two together, and constantly improve the quality of training of architectural design technology professionals.

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