

The Influence of "Application of Architectural Decoration Technology" Competition on the Construction of Architectural Decoration Specialty

Li Na

Henan Vocational and Technical College of Architecture, Zhengzhou 450064, Henan, China

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Abstract: Vocational skills competition is the vane of higher vocational education, which plays a leading role in professional construction, curriculum reform and teacher team construction. This paper analyzes the development process of the competition of the National Vocational College Skills Competition, and analyzes the role of the core skills training and professional quality of the colleges and students on the training, teaching reform and teaching staff construction.

1. "Application of Architectural Decoration Technology" skills competition

1.1 Development process of the "Application of Architectural Decoration Technology" competition

National vocational college skills competition higher vocational group "Application of Architectural Decoration Technology" competition is sponsored by the national housing and urban and rural construction vocational education teaching steering committee of "Building Decoration Skills" competition, held annually in 2014 to 2017, a total of four sessions, the competition to strengthen the domestic higher vocational colleges building decoration professional (group) in the professional construction, talent training, education teaching, etc. On January 4, 2019, after the application of the Housing and Urban-Rural Construction Banking Index Committee, the "Application of Architectural Decoration Technology" competition of the higher vocational group was added to the 2019 National Vocational College Skills Competition. On June 1, 2019, "Application of Architectural Decoration Technology" for the first time as the Ministry of Education hosted the national vocational skills contest successfully held, the second and the third national vocational colleges skills competition higher vocational group "Application of Architectural Decoration Technology" item, respectively on June 18, 2021 and August 24 to 27, 2022, successfully held in Shandong city construction vocational college. The successful development of the "Application of Architectural Decoration Technology" not only strengthens the display and exchange of the education and teaching reform achievements of architectural decoration majors (groups) in higher vocational colleges, but also promotes the development of all provinces and autonomous regions to take this competition as a provincial skill competition.^[1]

1.2 Analysis of the competition items of "Application of Architectural Decoration Technology"

The task of "Application of Architectural Decoration Technology" is set based on the national professional teaching standards, industry standards and enterprise talent demand. With the actual project of building decoration engineering as the carrier and driven by the core task of the building decoration post as the driving, the competition tasks are consistent with the actual operation of the post are formulated. According to the task book and relevant materials provided, the participating team will cooperate to complete various tasks in the same building decoration project.

According to the 2019 "Application of Architectural Decoration Technology" competition published on the official website of the National Vocational College Skills Competition, the competition mainly sets up the following three tasks: deepening the design of building decoration construction drawings, compilation of building decoration bill of quantities, and construction organization and management of building decoration engineering. Judging from the 2019 competition mission, Task 1. Deepening design of construction decoration construction drawings, The DWG format source file of the original structure diagram is presented, According to the renderings of the program, According to the drawing specifications and requirements, The design and drawing of architectural decoration construction drawings, Mainly assess the students' design scheme reading ability, decorative material application and decoration structure and construction technology ability, as well as drawing standard standard implementation skills; Task 2. Compilation of the bill of quantities for building decoration, According to the given decorative construction drawings, Prepare the list and calculation quantity according to the task requirements, Mainly assess the students' list preparation, standardized execution ability, and the operation of office software ability; Task 3. Construction Organization and management of Building Decoration Engineering, Participants need to use the answer software to jointly complete 60 multiple choice questions and 20 multiple choice questions, It mainly evaluates students' skilled in the ability to recognize drawings, ability to prepare construction plans, ability to participate in drawing joint review and technical disclosure, ability to implement relevant specifications and technical standards, ability of construction technology application ability and cost control.^[2]

In April 2021, the official website of the competition released the procedures and samples of the 2021 "Application of Architectural Decoration Technology". The assessment task is compared with the real questions in 2019, there are mainly the following improvements and changes. First, the assessment task changed from three tasks to four modules; second, the competition duration is 5 hours in 2019 and a total duration of 13 hours in 2021; three players in 2019 to one team in 2021. In addition to the aforementioned changes in the form of several competitions, The assessment content has also been improved, among, Module 1 building decoration construction drawing design, The original structural diagram is no longer provided, According to the architectural space information and scheme renderings provided by the task book, Design and draw construction drawings by themselves; Module 2 building decoration bill of quantities preparation, The contestants need to design according to their own projects (module 1), Prepare the bill of quantities; In 2021, the module three instructions were added to the in-depth design, Set up on-site instruction tasks in the industry, Mainly examine the contestants' knowledge of new technology and new materials, Assessment players' professional practical ability, adaptability and team cooperation ability; Module four building decoration engineering project management and practice, The two contestants completed the competition task alone through the answer software, Decoration practice was added to the questions, Take the average score of two people, This requires both players to master the knowledge and relevant skills assessed in this module.

In April 2022, the official website of the competition released the procedures and samples of "Application of Architectural Decoration Technology". The regulation clearly states that the

competition volume follows the compilation concept of "based on teaching, above teaching and leading teaching". The core comes from the real situation and complete task of the work process, focusing on the comprehensive ability, strain ability and professional quality of the contestants. Seventy percent of the content is the core skills stipulated in the teaching standards, and 30 percent will examine the job skills of new business forms, new technologies and new skills.

From the analysis of the question task of the national competition, The competition integrates the key work points of the building decoration industry into each module, Set up the competition task according to the actual workflow: start from obtaining the building space information and drawing the original structure map, Understand the design scheme for decoration construction drawing design, Then according to the construction drawing preparation list of calculation quantity, Deepen the instructions for new materials and new processes, Finally, the construction project management and practice, Formed the complete sequence competition module, Comprehensive assessment of students' professional core technical ability, Through the preparation and competition, It can basically achieve the seamless connection with the professional skills required by the enterprise job ability, Then to promote the curriculum reform of higher vocational building decoration engineering technology major.

2. Influence of "Application of Architectural Decoration Technology" on professional construction

2.1 Optimize the talent training objectives

The "Application of Architectural Decoration Technology" competition actively transformed the competition resources, forming a team of well-known experts and vocational colleges in the industry to refine the core content of the actual production process. From 2014 to 2017 as the industry competition, the three-dimensional competition resource package has been successively developed. After the successful holding of the National Competition in 2019, according to the requirements of the Resource Transformation Measures of the National Vocational College Skills Competition, the "Application of Architectural Decoration Technology" was formulated. The content involved in the process of the competition with key skill points, knowledge points to make typical competition questions operation and explain the whole process of multimedia resources, covering the content of the whole process of the competition, and use the virtual simulation software to demonstrate the whole process, the transformation results are displayed in the national teaching resource database platform, for teachers and students to communicate and learn. The competition is based on the current national standard standards and professional teaching standards, and the evaluation standards are formulated according to the professional standards of decoration construction drawing design, deepening design, business settlement, management technology and other professional standards. Enterprise experts participate in the formulation and evaluation of the competition scoring standards, so that the evaluation standards are in line with the industry post requirements and employment requirements. According to the standardized content of competition related skill elements, such as the introduction of basic skills, competition rules, key points of competition skills, competition evaluation indicators, etc., the teaching objectives of the core courses of architectural decoration engineering technology major can be guided, and the curriculum standards and talent training program can be optimized.

2.2 Promote school-enterprise cooperation and integration

"Application of Architectural Decoration Technology" the corresponding construction decoration industry construction drawing deepening design and construction management professional positions and post group, competition task for building decoration engineering technology graduates

jobs important job skills, competition process consistent with professional actual skills work process, comprehensive assessment of students' main professional ability. The participation of higher vocational colleges in the competition activities can play a very important role in school-enterprise cooperation and the integration of industry and education.

Jiangsu Vocational Institute of Architectural Technology since 2014 in the construction bank refers to committee sponsored the national vocational colleges "Building Decoration Skills" competition, and the Ministry of Education sponsored the national vocational colleges skills contest "Application of Architectural Decoration Technology" project, respectively with Suzhou Gold Mantis Construction & Decoration Co.Ltd., build eight bureau decoration engineering co., LTD. And other enterprises established a joint education, joint project, linkage development of strategic cooperation. With enterprises introduced into the school and diversified integration, both the school and the enterprise have formed a community of shared future, and the enterprise order classes such as "Gold Mantis Class" have been established. Deep cooperation with enterprises, built a furniture teaching factory, 3 traditional skills master studios. The university and enterprises have jointly formulated 7 industrial technical standards and completed 16 provincial and municipal scientific research projects. Through the in-depth cooperation between schools and enterprises, an innovation and entrepreneurship training system integrates skill training and quality training. We will establish a talent incubation platform for "innovation, creativity and entrepreneurship" to improve the comprehensive quality of "moral innovation". The quality training of three innovation should be included in the talent training program, and the forging of morality and students' craftsman spirit should be promoted through the carriers of school-enterprise cooperation projects and enterprise naming skills competitions and other carriers.^[3]

Shaanxi Railway Institute since 2014, participated in the four live construction bank refers to the committee hosted the national vocational colleges "Building Decoration Skills" competition, in 2019 attended the Ministry of Education sponsored by the national vocational colleges skills competition "Application of Architectural Decoration Technology" item, five times to participate in the competition, have achieved excellent results. The college of architectural decoration professional is based on skills competition, respectively with Weinan COMFY-HOUSE Decoration co., LTD., established modern apprenticeship pilot strategic partnership, jointly formulated highlights the double subject, double identity "ability, engineering combination" talent training plan, build the "curriculum modular, content, project post" curriculum system, explore the practice of "phased, modular, engineering alternate" talent training mode, talent training quality is significantly improved.

2.3 Boost the construction of the teaching staff

In the guidance process of skills competition, the full-time teachers in the school can guide students to carry out professional and systematic training with their rich teaching experience, which is the main force of competition guidance, but they have little understanding of the new technologies and new processes in the industry."Application of Architectural Decoration Technology" to the actual project for the task, examine the students' professional core skills, many schools and excellent enterprises, and industry experts together guide teachers team, complementary advantages, promote school professional teachers master the latest technology, shorten the gap, skills competition can effectively promote the double "type" teaching team and teachers teaching innovation team construction, on this hand, there are many successful cases.

Shaanxi Railway Institute to promote teaching, cultivating "double mentor, double type" teacher teaching innovation team, through building decoration professional skills competition, constantly strengthen the cultivation of teachers 'professional technical ability, at present, the teaching team double quality teachers reached 100%, teachers' social service ability level significantly improved,

professional influence gradually expand.

Liaoning Provincial College Of Communications to the skills competition as the starting point, to build a high-level "double-qualified" teaching team. In the process of participating in the competition, I cooperate with local excellent enterprises, and form a guidance team with full-time teachers to complement their advantages, and effectively promote full-time teachers to master the latest technology of the industry and enterprises, so as to innovate teaching methods, improve teaching ability, and build a professional teaching team of school-enterprise communication.

Henan Technical College of Construction adheres to the principle of "promoting teaching, promoting learning by competition, promoting reform and promoting construction by competition", and takes competition as the starting point, and encourages teachers and students to actively participate in various skills competitions at all levels. Since 2014, teachers and students majoring in Architectural Decoration Engineering Technology have participated in the "Building Decoration Skills" competition held by the Bank Municipal Committee, and participated in the National Competition of "Application of Architectural Decoration Technology" in China in 2021, all of which have achieved excellent results. Professional group teachers to strengthen the basic professional skills in the guidance competition, Promoting professional teaching reform, Innovative teaching methods, Instructor team members successfully set up 5 scientific research projects, Among them, "Exploration and Practice of Professional Construction and Curriculum System Construction under the Competition and Education Integration Mode" has successfully approved the key scientific research project of the Vocational Education and Teaching Reform Project in Henan Province in 2020, In 2019, The instructor team participated in the research and development of "Building Decoration Engineering Drawing Recognition Ability Training and Evaluation Software" of ZwSoft Co., Ltd(guangzhou).; Effectively promoted the construction of the teaching innovation team of professional teachers.

2.4 Improve students' employability

"Application of Architectural Decoration Technology" the building decoration industry real work process, tasks and requirements into the game, competition task according to the building decoration industry professional job ability, docking industry standards and enterprise requirements of choose and employ persons, in the assessment of professional core technology ability at the same time, also test players team cooperation ability and other comprehensive quality. Through the training of competition and task-driven, professional knowledge is integrated into the training process of each module, which is conducive to the integration of professional teaching combined with skills competition in higher vocational colleges. With typical work tasks as the carrier, students can participate in the whole process of design scheme drawing, construction drawing design and site construction, which can strengthen students' professional skills. Participating vocational colleges of teachers and students in the process of preparation, to experience industry work real situation, students by prepare for skills competition, basic can realize practice teaching and enterprise production seamless docking, understand industry ahead of choose and employ persons demand and job standards, not only practice practical skills, skills can also improve the comprehensive quality, effectively improve students' professional employment competitiveness.

3. Conclusion

Vocational education cultivates high-quality technical talents, the competition tasks of "Application of Architectural Decoration Technology" competition according to the needs of enterprises for talents, close to the working skills of building decoration professional positions, reflecting the professional core ability and knowledge, and reflect the needs of enterprises for

talents. By participating in the "Application of Architectural Decoration Technology" skills competition, Vocational colleges can optimize the training objectives of professional talents, It is conducive to the reform of the teaching content and teaching method of professional courses; In the course of the tutoring competition, Enhanced communication with business mentors, It is conducive to strengthening teachers' basic professional skills and promoting the innovation of teaching methods, Greatly promoted the construction and development of the teaching staff; In the preparation process of the competition, Develop the skills you use what you have learned, Competition training can improve students' teamwork ability and professional and technical skills, It is conducive to the improvement of students' professional quality and operational skills, Can effectively enhance the students' employment competitiveness.

"Application of Architectural Decoration Technology" for the building decoration industry development and technical skilled personnel training needs, not only promote building decoration professional optimization curriculum and teaching reform, also can effectively improve students' core technical skills and professional quality, meet the construction decoration industry transformation and development of technical skilled personnel training, the integration of vocational education and social actual demand has a positive role in promoting. The competition has a positive influence on deepening the construction and curriculum reform, optimizing the talent training program, improving the curriculum system, and expanding the influence and attraction, promoting the display and exchange of teaching achievements, and leading the characteristics of higher vocational colleges.

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