**Exploration and Research on Practice Management in Higher Vocational Colleges Based on School Enterprise Cooperation**

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**Abstract.** Taking Xi’an Aeronautical Vocational and Technical College as an example, this paper introduces the measures taken by Xi’an Aeronautical Vocational and Technical College to promote the integration of production and teaching and the cooperation between schools and enterprises, especially the measures taken by the College to actively adapt to the requirements of new technology in the new era, to intensify the reform of practice management, to establish a school-enterprise cooperation as the main line, to take the system construction as The aim of teaching high quality development is to establish and perfect the practice management system, implement norms, comprehensive evaluation system construction.

**Introduction**

Xi’an Aeronautical Vocational and Technical College is a national model vocational college, and is the construction unit of three "first-class vocational colleges” determined by the Shaanxi Provincial Department of Education. Since the demonstration construction in 2007, the college has been pushing forward the reform of the training mode of combining work with study, taking the promotion of management level as a concrete measure for the connotation development, vigorously promoting the management of schools according to law, standardizing the management of education and teaching, constantly improving the management system of practice, and promoting the standardization, refinement and schematization of practice management. Promote.

The College attaches great importance to the management of practice, earnestly implements the relevant provisions of the Ministry of Education on education and teaching, especially on the management of practice, further deepens the integration of production and teaching, school-enterprise cooperation, further broadens the depth and breadth of cooperation with military, civil aviation and shipping enterprises, renews management concepts, improves system standards and innovates operation. Mechanisms, ways and means of improvement, improve the management level for the college to build a distinctive aviation characteristic of high-level vocational colleges to lay a solid foundation.

**Typical Practices and Specific Measures**

Post practice is an important part of the cultivation of high-end technical and skilled personnel in the college. For a long time, the college has been pushing forward the integration of production and teaching, the depth and breadth of school-enterprise cooperation. It regards student post practice as an important link and core carrier of the cooperation between the college and enterprise, standardizes the management of student practice, and innovates the form of post practice. Establish the standards of practice enterprises, protect the legitimate rights and interests of students, pay attention to the integration of vocational skills and professional spirit, enhance students’ sense of social responsibility, innovative spirit and practical ability, effectively improve the quality of technical personnel training, and serve the needs of industrial transformation and upgrading.
Standardize Post Practice Management

The college strictly implements the central provincial regulations. One is to strengthen organizational leadership and set up a leading group of on-the-job internships headed by the deputy dean of teaching. In March of each year, all the specialties in the hospital are regularly deployed to work on-the-job internships, with unified leadership, layout and overall arrangement. The other is to implement the training program for on-the-job internships, requiring all the specialties in the hospital to be on-the-job internships in accordance with the six-month schedule. The third is to set up the standards for post practice enterprises, and select the best practice enterprises according to the basic principles of "professional counterpart, clear post, clear responsibility, and standardized management"; the fourth is to standardize the practice process, establish standardized, process chemistry students' post practice process, standardize the educational administration office, enrollment office, each secondary teaching unit. And the process of students, to establish "concise, clear process, clear responsibility" practice process. Fourthly, the Notice on the Issue of "Measures for the Management of Students' Post Practice in Xi'an Aeronautical Vocational and Technical College (Amendment)" has been formulated and implemented, and the Regulations on the Management of Student Status in Xi'an Aeronautical Vocational and Technical College have been revised, and the relevant documents on post practice issued by the Ministry of Education and the Provincial Department of Education have been strictly implemented. According to the requirements of the Ministry of Education and other five departments, we should fully implement the latest spirit of student internship management in the central province from the aspects of organization and management, work flow, duties and discipline, handling of emergencies, etc. to ensure that the document spirit formulated by the Ministry of Education can be implemented and the management objectives for internship determined are not lost. Xi'an Aeronautical Vocational and Technical College strengthens the student practice work implementation plan, further defined the student post practice main task.

Innovating Post Practice Form

Colleges continue to deepen school-enterprise cooperation, give full play to the dominant position of enterprise education, innovative forms of post practice. First, more than 10 majors, such as CNC technology, aircraft mechanical and electrical equipment maintenance, are encouraged to carry out the teaching reform of work-study alternation, multi-semester and segmental mode with large state-owned enterprises such as Xi'an Aircraft Industry (Group) Co., Ltd. and Xi'an Aerodynamic Power Control Science and Technology Co., Ltd. The second is to carry out the teaching reform with the 5702 factory of the People's Liberation Army of China. China Aviation Industry Shaanxi Aircraft Manufacturing Co., Ltd. and other enterprises have jointly launched nearly 30 order classes. The schools and enterprises have jointly formulated and implemented the internship program. Combining the employment posts, the students' graduation thesis and internship will be combined to improve the quality of personnel training and targeted. Under the encouragement of the Ministry of Education's pilot project on modern apprenticeship, a special fund of 1.14 million was set up to support remote sensing survey and testing, automobile operation and maintenance technology specialty to carry out modern apprenticeship pilot project jointly with enterprises such as 14D and 4S stores of Audi. Schools, enterprises and students signed tripartite agreements to clarify the dual identities of apprentices and adopted them. The talent training mode of work alternation and post becoming talents should actively explore the mechanism of coordinated education between schools and enterprises.

Combining Theory with Practice

After years of running a factory, the school has systematically summarized and concisely formed the "work-study quadruple" system education mode, which combines education with industry, school with enterprise, teaching with production, learning with employment. Firstly, all the professional personnel training programs in the college require that the amount of practical training courses should not be less than 50%, which emphasizes the important proportion of practical
training in the training of technical and technical personnel and the importance of post success. In the construction of the experimental training room of the college, the construction of the experimental training room is carried out according to the specifications of the equipment and instruments formulated by the Ministry of Education; the third is the development of the integration of theory and practice courses, combined with the requirements of the post practice, fully integrated into the post practice standards, the school and enterprise jointly developed more than 30 integration of theory and practice courses such as "numerical control technology and programming". It promotes the growth of theoretical level and the improvement of practical ability under the guidance of theory.

Protecting Students’ Legitimate Rights and Interests

The school insists on giving birth to students and fully protects the rights and interests of students in the internship process. Firstly, we should implement the tripartite responsibility, safeguard the students' reasonable rights and interests, strictly implement the regulations of the Ministry of Education and other five ministries and commissions on the management of students' practice in vocational schools and the standards for professional (class) post practice in Vocational schools, sign tripartite agreements among schools, enterprises and students, implement the tripartite responsibility and rights in the form of the rule of law, and protect students. Reasonable rights and interests and protection; second, fully implement the student insurance, the school invests special funds every year, in accordance with the standard of 51 yuan/person for all interns to buy internship liability insurance, escort students for internship; third, the implementation of the system of internship teachers to lead the team, the school centralized arrangements for internship, according to no less than every 50 students 1 teachers were set up to follow the students' life and work.

Integration of Vocational Skills and Professionalism

Post practice emphasizes the cultivation of technical and technical personnel from the perspective of post competence. The college adheres to the combination of education and enterprise production, follows the law of students' growth and the formation of professional competence, strengthens the unity of knowledge and practice, cultivates students' professional ethics and skills, and integrates humanistic accomplishment and vocational quality education into the process of personnel training. During the internship, a large number of enterprise craftsmen were selected as tutors for students to promote the organic integration of vocational skills and professional spirit, and to train students to strive for excellence, excellence, long-term success and exploration. The innovative craftsman spirit lays a solid foundation for building more "big power craftsmen".

Construction of Post Practice Evaluation System

The Institute fully respects the integration of the law of talent growth and the post training of enterprises, and establishes a post practice evaluation system which covers enterprises, schools and students. The school and enterprise jointly formulate the practice assessment methods, including the assessment items, assessment content, assessment methods and scoring standards and other practice rules.

In 2014, 35 students majoring in welding technology and automation went to Dalian Shipping Group Steel Construction Company to take part in post practice. On the principle of "complementary advantages, resource sharing, mutual benefit and win-win, and common development", the two schools and enterprises jointly worked out a post practice program and jointly developed two textbooks. When the post practice approached 100 days, they studied. Students have independently completed the pre-assembly and welding of 800 containers and 300,000 tons of oil tankers. They have successfully passed the inspection and acceptance of shipowners and ship inspection. The spirit of dedication, excellence and long-term success of the students has been well received by the enterprises. At the end of their internship, nearly 30 students and enterprises have signed employment agreements.
Effect and Response

Effectively enhance the quality of student employment. Through in-depth post practice, it further promotes the integration of students' professional quality and professional skills, strengthens students' sense of social responsibility, innovative spirit and practical ability, plays an important role in enterprise education, forms a mechanism of school-enterprise collaborative education, and effectively promotes the connection between curriculum standards and industry standards. The content of the course is connected with the post ability, which improves the quality and pertinence of technical and technical personnel training, shortens the period of pre-job training for students. A large number of students get the approval of practice enterprises and sign employment agreements through post practice.

Comprehensively improve the quality of skilled personnel training. "Brightness is not bright, quality is considered." The College insists that improving the quality of technical and technical personnel training is the foundation of the school. It continuously deepens the integration of production and teaching, school-enterprise cooperation, work-study integration, knowledge and practice integration, and puts the promotion of students' cognitive practice and on-the-job practice as the top priority of the work-study personnel training. With a total expenditure of 500,000 yuan, the college has supported various school-enterprise cooperation, such as on-the-job internship; required that the proportion of all professional practice courses in the college should not be less than 50%; all the specialties in the college regard on-the-job internship as one of the necessary conditions for graduation; and driven by various on-the-job internships, the college and enterprises have jointly opened nearly 50 "courses" in recent years. "The order class", the modern apprenticeship system jointly conducted by schools and enterprises was identified as a pilot unit designated by the Ministry of education.

Vigorously promote the reform of personnel training mode of work integrated learning. The institute takes school enterprise cooperation as the starting point, and relies on post practice to further promote the reform of personnel training. Through the concentrative cognitive practice, with just practice, on-the-job practice, and other forms of classroom teaching students into practice. Take the enterprise as the internship and practice base of the school, move the classroom to the workshop, and realize the zero distance contact between the students and the enterprise. Let the students complete the knowledge study in the production process, and combine the book knowledge with the production process closely. Achieve learning - Practice - a virtuous circle in learning - re - practice.

Conclusions

As the construction unit of "first-class higher vocational colleges" in Shaanxi Province, the College has entered a new era of first-class college construction. Facing the new requirements of development, the West Airlines Vocational College will take the initiative as a mission to further promote the practice management. First, deepen the integration of industry and education, school-enterprise cooperation. Two, we should take the initiative to reform the standard system of practice management. Actively adapt to the new technology development requirements of enterprises, with the goal of promoting high-quality internship development, seek the best interests combination point of school-enterprise cooperation, promote the relevant internship process management of schools and enterprises, team-leading teachers management, internship performance management and other related system construction, and establish internship management norms with the goal of educating people.

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