Study of Standardizing Teaching Management and Promoting High Quality Development of Aeronautical Characteristic Technical Skills Talents

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Abstract. Focusing on strengthening teaching management, we should constantly improve the standardization, scientific and refined level of teaching management in Vocational colleges, and upgrade the modernization of school management ability. Taking Xi’an Aeronautical Vocational and Technical College as an example, in accordance with the requirements of docking aviation industry, the College has constructed a professional chain system for docking aviation industry chain development. Through standardizing management, refining system and optimizing process, the efficiency of teaching operation is improved, the level of education and teaching management is improved, and the high-quality development of education is promoted.

Keywords: Teaching Management, Aviation characteristics, Teaching standard.

1. Introduction

Promoting the management level is the realistic requirement of promoting the connotation development of Vocational Colleges and an important guarantee for improving the quality of personnel training. In recent years, the awareness of running schools according to law has been increasing in the vocational education front, the management system has been constantly improved, and the management work has been given universal attention. "Notice of the Ministry of Education on Issuing the Action Plan for Promoting the Management Level of Vocational Colleges (2015-2018year)", implementing the Action Plan for Promoting the Management Level of Vocational Colleges, giving full play to the role of management in promoting, guiding and ensuring the reform and development of Vocational education, and continuously improving the standardization, refinement and scientific level of management of vocational colleges.

2. "Triple Focus" Constructs the Training System of Aviation Characteristic Talents

2.1 Focus on Setting up Specialty in Aviation Industry.

First, around the aviation industry chain, we continuously optimize the aviation professional chain, keep up with the new developments of the aviation industry, such as UAV technology and navigation technology, adjust the professional structure in time. After years of optimization and improvement, the college has formed an aviation professional chain system with aviation manufacturing, aviation maintenance, aviation materials, aviation services and electronic information as the main line to support the development of the aviation industry. Second, we should improve the "Measures for Professional Adjustment and Management", accurately dock "Made in China 2025", and serve the traditional industries to develop towards high-end, low-carbon, intelligent and precision, and adapt to the development of new technologies, new models and new formats.

Following the requirement of UAV market development, in 2013, the College introduced Derun Aeronautical Technology Co., Ltd. to establish UAV maintenance and R&D base in the school through "introducing enterprises into the school" under the condition of insufficient experimental and training rooms. The University and enterprise jointly declared and approved the first "UAV technology" specialty outside the catalogue of national higher vocational and technical colleges, and the "General Aviation Technology" specialty is also complete. The second approved University in
Only in 2017, the College abolished three major related to aviation, such as material forming and control technology, and added four new specialties such as "aero-engine manufacturing technology" and "aero-material precision forming technology" to support the development of aviation industry. The system of Aeronautical specialty is more obvious.

2.2 Focus on the Working Process to Formulate a Talent Training Program

Firstly, we should formulate scientific guidance for personnel training programs, which is based on cultivating people with moral integrity and taking service development as its purpose, in order to promote employment-oriented, highlight the accumulation of technical skills, and, according to the standard that the proportion of practical courses should not be less than 50%, support the development of professional curriculum system based on work content and typical work process, and encourage the development of post-based professional curriculum system for all majors. Job content, professional teaching content integrated into the national vocational qualification standards. Secondly, we should standardize the procedures for the formulation of personnel training programs, and formulate personnel training programs in accordance with the procedures of "full investigation, specialty formulation, college preliminary examination, school approval and approval by the teaching committee". Thirdly, we should set up a feedback revision system of personnel training programs that resonate with industrial technological innovation. Every year, the college leaders will lead the team personally, fully understand the needs of enterprise personnel, and feed back the requirements of enterprise personnel and technology to the revision of personnel training programs, so as to ensure that the personnel training specifications and enterprise posts are connected, and that the curriculum contents are connected with professional standards.

2.3 Focus on the Course of Post Standard Construction

Firstly, we should actively build curriculum resources, preside over one national professional resource bank for Vocational education, participate in five national resource banks, and preside over two provincial resource banks. Secondly is to actively create a mixed teaching model. By 2018, teachers have set up 433 courses on the Blue Moyun Class platform and 395 courses on the Intelligent Vocational Education Platform to create a ubiquitous, mobile and personalized teaching model. The third is to standardize teaching management and establish a teaching working committee. In 2018, 20 college-level planning textbooks have been established, and one textbook has been rated as provincial excellent textbooks. The first prize.

The Academy is a training unit for directed sergeants of the People's Air Force and Army of China. Under the guidance of military academies, 886 students are currently enrolled in four majors. Referring to the requirements of the army, the academy's non-commissioned officers and students should strengthen military and political quality training and enhance professional skills learning in accordance with the norms of "uniform clothing, uniform classes, uniform meals and uniform bedtime". And give full play to the radiation-driven role, the military training of Freshmen in the university is held by the students of the sergeant class, and all classes in the school are equipped with military and political quality instructors who are held by the students of the sergeant class, making the sergeant academy a "military academy within the school".


3.1 Docking Industry Construction Base

According to the development thought of "integration of production and training, service demand and cluster development", the college actively docked "Made in China 2025", actively adapted to the needs of professional cluster development ability, referred to the post group of production process, reshaped the course system of practice and training, reshaped the capacity requirements of practice and training posts, formulated 25 revised standards for practice and training, and built and upgraded experimental and training rooms. Thirty-six, one new virtual simulation training center for mechanical manufacturing, eight enterprises such as Derun Aviation Technology Co., Ltd. and Guo...
Four-Dimension Co., Ltd. were introduced. Eight schools and enterprises, such as UAV application technology training base, jointly built productive training bases.

The College makes full use of its advantages in the core area of the National Aviation high-tech industry base, makes full use of the established productive training base, and enhances the service of small and medium-sized enterprises. Introducing a number of advanced equipment such as Demadi five-axis linkage CNC machining center, according to the "busy production, idle teaching", to provide processing services for the aviation industry base enterprises such as Jiuyuan Airlines; College composite material training base, hot-pressing irrigation, oven and other special processing for Yuanfei Company, is the only open unit of this kind of equipment in the industrial base, and has become the regional type. The key link of enterprise industry chain.

3.2 Docking Standard Specification Process

One is to regulate the management of post practice according to the standards. Strict implementation of the central and provincial regulations, regular deployment of all professional internships in the hospital, all professions in the hospital are required to arrange internships in accordance with six months. Set up the standard of internship enterprises, select the best internship enterprises according to the basic principles of "professional counterpart, clear position, clear responsibility, management norms". Standardize the practice process and establish a "concise and clear, clear process, clear responsibility" practice process. The Circular on the Issue of "Measures for the Management of Students Internship on Post (Amendment)" (Teaching Word No. 25, 2016) has been formulated and implemented, and the Regulations on the Management of Student Status have been revised to strictly implement the "six no" requirements of the Ministry of Education and other five departments. Second, school-enterprise cooperation to innovate on-the-job practice forms. To carry out the exploration of double-selection meeting for post practice, and to carry out double-selection meeting for post practice in many secondary institutes, such as Automation Engineering College, so as to create an independent practice platform for enterprises and students before employment, promote the understanding of enterprises and students, and improve the accuracy of students' employment.

Out-of-school practice uses information management platforms such as "excellent practice" to establish "135" monitoring and early warning mechanism, that is, 1 day system is not checked in, automatically pushing absence information to the head teacher and counselor; 3 days are not checked in, automatically pushing absence information to the Second-level College secretary; 5 days are not checked in, automatically pushing absence information to the head of student work, strengthening student practice management. To improve the efficiency of school management.

3.3 Docking Demands Protection of Rights and Interests

Adhere to student-centered, and make every effort to protect the relevant rights and interests of students in the process of internship. Implementing tripartite responsibility, ensuring students' reasonable rights and interests, implementing tripartite responsibility and rights in the form of rule of law, ensuring students' reasonable rights and interests; fully implementing student insurance, the school invests special funds every year, purchases internship liability insurance for all interns according to the 51 yuan/person standard, escorts students' internship; implementing the system of internship teacher leading team, and centralized arrangement of schools. On-the-job internship, according to no less than 50 students to set up a leading teacher, follow up the students to help solve the life, work and other issues.

4. "Three Promotions" to Improve the Quality and Efficiency of Education

4.1 Standardizing System to Promote Efficiency

Firstly, according to the development of the tender industry and the regulations of the central and provincial governments, we should establish 25 management systems for the process of talent training, such as the Regulations of Teaching Management and the Evaluation Method of Talents Training
Programs. We should pay close attention to the implementation of the system, strengthen the fine management of teaching and research projects, quality engineering management, textbook planning and teaching operation, and do a good job in the examination of textbooks. Secondly, we should establish a regular teaching meeting system. We should hold regular teaching meetings on Monday afternoons in odd weeks, concentrate on studying and discussing the policy documents of superiors, and focus on solving them. Professional curriculum reform and teaching operation are difficult. The third is to establish a hierarchical teaching system. According to the characteristics of different types of self-enrollment and college entrance examination enrollment, this paper explores the reform of hierarchical teaching mode. Fourth, service employment and entrepreneurship development. Establish a mechanism for summer school-level leaders to return visits to enterprises, timely feedback of enterprise opinions to the personnel training process, revise student management regulations, encourage and support students to innovate and start businesses. Fifth, it is necessary to establish a supervision mechanism for the implementation of personnel training programs. According to the requirements of management science of "design-implementation-regulation-evaluation", it is necessary to establish a teaching supervision team of more than 10 people, including enterprise personnel, and strictly implement the teaching plan.

In view of the characteristics of single-enrollment candidates, the Aviation Management Engineering College classifies English courses into two types: AB and AB. Category A carries out the promotion education, enlarges the oral application training required by air crew, marketing, tourism English and so on. Category B carries out the supplementary education to highlight the incremental development. After three years of preliminary exploration, the passing rate of English AB test for pilot students has increased by 12 percentage points, and their oral English ability has been greatly improved.

4.2 Standardizing Team and Promoting Service Improvement

First, all secondary teaching units have established a hierarchical management mechanism of "Dean-Vice Dean of Teaching-Director of Teaching Office-Teaching Secretary-Director of Teaching and Research Department". Each secondary teaching unit has a full-time teaching secretary, who is responsible for daily teaching affairs. More than 60% of the teaching secretaries are graduate students. Second, improve the teaching management platform, upgrade the green fruit teaching management system, and add new trainees Cloud internship management system, new acquisition of intelligent vocational education, Blue Moyun class and other courses platform, make good use of online school, superstar Erya general course and other network course learning platform. Third, we should firmly promote teaching and research activities. Establish 46 professional teaching and research departments and 9 experimental teaching and research departments to give full play to the role of teaching and research activities in collective lesson preparation, teaching research, method exploration, professional construction and curriculum reform. Strictly implement the 400 yuan per month allowance for the director of the teaching and research department. Fourthly, we should establish a system of laboratory administrators that combines specialty with concurrency. Establish specialized and part-time laboratory administrators for 119 laboratories in the whole school, ensure the fine management of laboratories, and set up 150,000/year special personnel funding support.

4.3 Two-level Reform Promotes Quality Development

The school actively adapts to the changes of internal and external environment, takes performance appraisal as the guidance, and shifts the focus of teaching work downward as the core. On the basis of the original eight teaching departments, eight secondary colleges have been established. The secondary colleges have been built into the main body of personnel training quality responsibility and school-running subject with strong "self-management, self-restraint, self-improvement and self-development" under the macro-management and support of the school. It has formed a daily teaching management system with secondary colleges as the main body and educational administration department as the guidance. Since the two level management reform, the performance appraisal award has increased from 980 thousand in 2013 to 4 million 980 thousand in 2017. The two class teaching
units are more obvious in teaching subjects, responsibility subjects and quality subjects. Schools have made many breakthroughs in the national awards such as teaching achievements, skills competitions, teaching ability competitions, Internet competitions, etc., and the effectiveness of two-level management examination is obvious.

5. Conclusion

There is no end to quality improvement and management improvement is always on the way. Taking teaching management declaration as an opportunity, the school will improve top-level design, standard system and personnel training process monitoring, and strive to build a high-level personnel training base with distinctive aviation characteristics, and strive to build the college into a modern vocational college with distinctive aviation characteristics, first-class domestic and international influence.

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