

# Research on the Training Mode Reform of Computer Application Professionals in the Higher Vocational Colleges

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**Abstract**—This paper takes the reform of personnel training modes in higher vocational colleges as the research object, and expounds the basic train of thoughts for the reform of personnel training modes in higher vocational colleges. The author focuses on the reform of the evaluation model, the construction of professional teaching team, the emphasis on qualification certification, the establishment of professional construction guidance committee, and the construction of professional teaching standards. Through the above research and practice, this paper has formulated the relevant supporting policies for the reform of talent training modes, improved the teaching quality of the computer application specialty in the hospital, and promoted the teaching organization ability level of the teachers in the hospital and the students' professional ability and comprehensive quality.

**Keywords**—Higher vocational colleges; Reform of talent training modes; Computer application specialty

## I. INTRODUCTION

With the introduction of the national "electronic information industry adjustment and revitalization plan", Jiangsu proposed the drawing of the blueprint of the five year plan for the construction of information industrial parks in various prefectural cities [1]. The relevant policies provided a good development space for the computer application technology major of the higher vocational colleges. At present, the number of talents provided by academic education is far from meeting the needs. The Ministry of education reports on the shortage of talents that the demand for computer application professionals in China will increase by 2 million annually [2]. In order to promote the development of regional economy and serve the construction of local information industry, our school will focus on the construction of computer major and cultivate a large number of excellent skilled personnel in order to cope with the unfavorable situation of the vacancy of human resources.

## II. THE OVERALL GOAL OF THE REFORM OF PERSONNEL TRAINING MODES

### A. The goal of professional construction

We should strengthen the cooperation between school and enterprise, construct the training mode of "school enterprise docking and ability standard", build a curriculum system of "wide base, live module", carry out and perfect the teaching mode dominated by "task driven method"[3]. In the construction period of two years, it mainly completes the training mode and curriculum system of engineering and science. The reform, the construction and perfection of teaching staff and so on.

At the same time, focusing on quality education and ability training, we build a two line teaching model, adhere to the purpose of service, take employment as the guidance, take the way of combining production, study and research, carry out "order type" training, highlight the practical application characteristics, promote the reform of the practice teaching system and the construction of practical teaching base. Combining with the industry qualification admittance policy, the system of "one book and multiple certificates" of graduates is carried out [4]. The system is guided by the regional market, relying on the industry as the support, and with the "double teacher" quality teachers as the guarantee, the establishment of the computer application specialty is accurate, the professional theory knowledge is sufficient, the practice teaching system is perfect and the combination of production, research and research is close. It is a demonstration specialty with distinctive secondary vocational characteristics.

### B. The goal of curriculum construction

We worked together with cooperative enterprises to set up professional teams, strengthen the development of school-based teaching materials and practical training materials, build two core courses, two special courses, and complete the compilation of relevant practical training materials. Through theoretical study and practice training, on the basis of the existing teaching reform and construction achievements, we constantly update the course teaching content system, follow the latest computer application technology, reform the teaching mode, teaching method and teaching means, strengthen the construction of the network laboratory and the teaching

environment conditions, and strengthen the construction of the network experiment room and the teaching environment. The training and construction of teaching staff should strive to improve the quality of teaching and strive to achieve the standard of national quality courses.

### C. *The construction goal of the teacher team*

On the one hand, we should employ part-time teachers, on the one hand, and on the other hand, send teachers to cooperative enterprises to take part in professional skills training, and create a "double teacher type" team with excellent professional quality and outstanding practical ability. In the past 2 years, 1 graphic designers and 1 network technology leaders have been trained, 4 core teachers, 7 double qualified teachers and 4 part-time teachers.

According to the needs of the professional construction, the present situation of the original computer professional teachers in the school is analyzed. The construction of the teacher team will be to consolidate the existing teachers and introduce the high-level talents as the auxiliary strategy, and at the same time employ the outstanding teachers in this field. The quality and professionalization of teaching staff should always be placed in the first place of professional education, and the concept of "professional education and teacher first" should be set up. We strive to set up a professional teacher team with a special part-time job, and gradually set up a qualified faculty with high professional level, rich teaching experience, significant scientific research results, clear professional direction, middle school backbone and reasonable structure level. At the same time, we should constantly strengthen the training and training of the teachers, send teachers to professional research or technical practice, or take part in professional technical seminars, or participate in technical training, and further strengthen the construction of the double teacher type of teachers, and make up more than 85% teachers of double teachers.

### D. *The construction target of the training base*

The application of computer is a very practical technical discipline. Therefore, the realization of the teaching goal, the high quality and high quality should depend on the practical teaching environment and resources to a great extent.

In view of the industry needs and training objectives, we should build a training room with strong specialization, high docking with enterprises and excellent performance of hardware and software. In the construction period of two years, we will build OA student learning management system, upgrade the digital campus network system, and build a flat advertising production training room.

The training base takes professional post skills as the core, and takes the training of students' professional ability, professional ethics and sustainable development ability as the basic point, and takes the operation process as the guidance, and builds professional training practice base in four levels according to professional basic training, special skills training, professional training and production post practice.

The campus training base is simulated, productive and open, and the production practice, internship and technical service of off campus training base are embodied.

### E. *School-enterprise cooperation and mechanism innovation*

We employ four technical personnel to participate in the teaching process management, and send twelve teachers into the enterprise research, study and exercise. At the same time, we take the enterprises into the school, cooperate to create one outside school training bases, one new Bpo outsourcing projects, together to improve the "school enterprise docking, the ability standard" integration training program, innovative school enterprise cooperation mechanism.

## III. THE BASIC IDEA OF THE REFORM OF TALENT TRAINING MODES

According to the needs of enterprises and employers, we adopt the talent training mode of "school enterprise docking, capability based" work integrated learning. The core idea of our new talent training mode is to determine the goal of competence from the needs of professional positions. At the same time, we should further build and improve the employment oriented, vocational ability based curriculum system of "broad foundation and flexible modules".

### A. *Reform of talent training modes*

We jointly set up a professional guidance committee with the enterprise. Under the guidance of the steering committee, we have determined the ability to be engaged in the computer industry in accordance with the needs of the computer professional post group and clear the target of professional training. Then the school organizes the teaching staff, with these abilities as the goal, sets up the curriculum, organizes the teaching content, and finally tests whether or not to meet these abilities. Our talent training program is based on the needs of the enterprise and the position setting, and the research on the reform of talent training program and the model of talent training.

At the same time, the human resource needs of the enterprise are directly transferred to the school enrolment work, so that the enrollment and recruitment can be effectively joined, and the enterprise's early training content is introduced into the classroom to form the integration of the teaching class and the pre job training of the enterprise. Through the reform of talent training mode, our students can truly realize "the entrance to the school, the graduation has the post", and finally form the "school enterprise docking, the ability standard" professional training model.

### B. *The construction of the curriculum system*

We have set up a curriculum system of "wide foundation and live module" based on employment and professional competence. We set up the curriculum standard with the principle of "applicable, sufficient and practical", and set three major courses of professional quality, professional foundation and professional direction. The construction of our new curriculum system highlights the training goal of "ability

based", so that the proportion of practical training courses for computer application majors reaches over 60%.

In view of the professional skills needed for computer professional employment, we have formulated the standard of computer curriculum system, determined the key courses in the field of learning, and finally implemented the design of the teaching unit of professional skill learning and professional skill training. At the same time, based on the training mode of "school enterprise docking and ability standard", we cooperate with enterprises to develop key courses, establish curriculum standard, term teaching plan, courseware, teaching plan and exercises, and standardize the teaching content of key courses.

### C. Reform of teaching modes

According to the personality characteristics of vocational school students, this task will focus on the reform of teaching mode with "task driven method". The teaching of task driven method can provide students with the situation of experiencing practice and the situation of understanding problems, learning around the task, testing and summarizing the learning process with the completion of the task, changing the students' learning state and fully mobilizing the initiative of the students. In the teaching process, students are the main body, teachers are the main body, tasks are the main line, and how to define tasks as the core is the key to solve tasks. In the process of implementation, it is mainly composed of four steps:

The first is to create situations, the next is to identify tasks, the second is students' autonomous learning and collaborative learning, and the last is effectiveness evaluation. The reform of teaching mode guided by "task driven method" will be implemented in four stages. The first stage is the stage of research and demonstration, a guide group is set up by the professional and technical backbone, the method is investigated and proved, the feasibility analysis report is formed, and the plan of the reform plan is formed. The second stage is the promotion stage, through the teaching demonstration class, the teaching research activity and so on carries on the thought and the method promotion. The third stage is the implementation stage, through the revision of the curriculum content, the improvement of classroom mode and other methods, the teaching mode is implemented by front-line teachers.

Finally, it is the evaluation and revision stage. In this stage, we demonstrate and amend the implementation process in the form of students' academic evaluation and teaching classroom effect evaluation, and finally perfect our reform mode.

### D. Pay attention to the "double division" structure of the teaching staff, and strengthen the construction of the specialized teaching team.

In accordance with the internal requirements of openness and professionalism, we build a professional teaching team with a combination of part-time and part-time jobs, and build an excellent teaching team with reasonable structure and combination of theory and practice. On the one hand, we encourage professional teachers to take the relevant vocational qualification certificates actively, and arrange professional teachers to the enterprise, accumulate practical experience, improve the practical teaching ability and serve the enterprise

actively. On the other hand, we employ professional talents and skilled craftsmen of industry enterprises to work as part-time teachers in schools and gradually form a part-time teacher. Practical skills courses are mainly taught by part-time teachers with corresponding high skill level. By hiring professional experts to give special lectures, discussions, answers, discussions, and special training, we can maintain the communication between the students and the social professionals so that the students can grasp the industry dynamics in a timely manner.

### E. Focus on the employment market and attach importance to qualification certification

We introduce professional qualification certification into the course, "twenty-first Century is the age of professional certificate", it is already an undisputable fact. At the same time, professional qualification certificate is also the basic requirement of the society. It is an important way to improve the competitiveness of students' employment and improve their self value by strengthening the combination of diploma education and professional qualification certification, which requires students to obtain qualifications at the same time.

Therefore, the curriculum, teaching content and schedule of teaching in this major are striving to provide convenience for students to get qualification certification. Our professional regulations: in addition to all the courses offered by the school, the students need to obtain the level of computer professional certification or professional qualification certification. After graduating from our university, we can get the junior / intermediate vocational qualification of computer operators. Schools should actively establish vocational qualification appraisal stations, introduce vocational qualification appraisal, encourage students to have a skill and make full preparations for employment.

## IV. CONCLUSION

Through the above reform, we are in line with the principle of "people-oriented, training room construction as the leading, curriculum and teaching reform as the core, focusing on the application of the industry as the key". At the same time, we aim at improving the quality of talent training, and accelerate the pace of reform and innovation of the talent training mode.

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