Network Technician Talent Cultivation Mode Discover
"Competency-based, highlighting the ability of students to vocational training"

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Abstract: Chinese technicians exposure to international education in the changing competitive environment of self, will continue to progress and development. Training high-skilled technician education, personnel training is the basic model. In 2004, the College of Education began to organize technicians to explore the practice of competency-based teaching system training model, through the investigation of teachers to fully listen to experts and other universities on the advice of experts, developed with the technician characteristics of education personnel training and academic characteristics of the planning and implementation of programs and students had been implemented in 2005, initially established a competency-based talent training model.

Keywords: demand forecasting, structure prediction, capacity-oriented, professional competence, education technicians

1. Introduction

In recent years, college in network professional talent demand research, professional cultivation objective orientation, talent cultivation mode, teaching contents and curriculum system reform and practice teaching, combining production and employment of graduates are made positive aspects of exploration and research. Through in-depth enterprise, society, social investigation of the situation, Active exploration, innovation, establish the mechanic talent training model, On teaching content and curriculum system reform, To improve the teaching methods and means, pay attention to the cultivation of students' professional ability, improve the quality of talent training, gradually forming a technician education characteristic of "ability for this, outstanding students' professional ability training of talents training mode.

2. Network Professional Social Demand Forecast Analysis

2.1 Talent Demand Forecasting

Global network talent shortage is the world of e-government, along with the development of electronic commerce and network talents, the demand of new growth. Network and the network's rapid economic development will quickly lead to the huge demand for talent education technology, provide great mechanic opportunities. According to the present day, 2-3 opening speed of various types of website of network in China, according to demand gap is quite big, can exist quite serious network talents crisis.

2.2. The quality of talent structure prediction

The computer network professional quality, according to the structure of main factors of two aspects: first, with the society to the information times, people pay more attention to human and society from the overall devel-opment of education and talent cultivation thinking. Besides still take the knowledge, ability and quality of people. Second, facing the 21st century, industry development trend is, in the original network management, based on the rapid development of electronic information management, The rapid development in the communications business environment, will quickly, upgrades and development of high-speed broadband access, and three in one become inevitable. In this situation, the requirements of computer network professional talents of knowledge structure can adapt to the requirements of the development of science and technology rapid changes.

3. Network professional teaching reform and innovation guiding ideology

To "Deng Xiaoping" education as a guide, adhere to the "education" as fundamental to the teaching model method applied to the overall quality of students, practical and creative ability to focus, the theoretical research and educational practice, actively explore the "ability-based, highlighting the ability of students to vocational training" training model.

3.1. "Talent" as the fundamental training to encourage students to personality development

Computer Network should be to the student, "people oriented", not a uniform pattern with the overall curriculum, ways of thinking, in principle, the ways and means to shape the people; in the emphasis on personality-based education, the education team should be .

3.2. To "practice" as the key to students the spirit of innovation

Technician education, specific training objectives, the type of talent, the main technical talents. Computer network is a high-tech industry, which requires us in the design of course structure, curriculum system, we should

pay attention to Xianjin mature development of new technology and curriculum, students close to the new network technology to improve practical skills, the real feeling, understanding, knowledge the practical application of results, students of the scientific spirit, creativity and innovation, encourage students to technological innovation.

3.3. To "technology" for the purpose of practical ability students

Computer Network similar to other professional and computer classes are practical, comprehensive, highly specialized applications, you must pay full attention to strengthening the capacity of training, to strengthen the practice, particularly in network systems engineering and software development practices. Through teaching, practice, so that students have access to new knowledge, analyze and solve practical problems, language skills as well as unity, cooperation and social skills.

4. Network professional teaching reform and innovation of the basic ideas

4.1. Strengthen the quality of ideas, take the characteristics of the road

Teaching profession as a whole to take the "technology" as the key to the formation of a "capacity to develop" the main line of the model, and strive to do professional fine and good, so that the graduates as "hardworking, and will learn, the courage to innovate", "will design, good maintenance, expertise in the" advanced application of computer network technology talents.

4.2. According to the social and industry needs, reconstruction of the target personnel training

Technician training objectives and personnel specifications to reflect the essential characteristics of technician education are two important aspects, is different from other types of the essence of education. Accordance with the "appropriate knowledge of basic theory, a wide professional knowledge, technical proficiency, high quality" principle, re-build the computer network technology, professional knowledge, ability, quality of structure to train specialized personnel for the target applied to meet the community and network technology development and promotion for the purpose of determining the Training Standards for professional technicians to enhance student practice ability, attention to human accomplishment and creative ability.

4.3. Reflect the characteristics of technician education, re-build course structure

Of occupational characteristics and work processes to the scene as the basis, from the knowledge, ability and quality multi-faceted start, focused and practical application of knowledge. From classroom training, basic skills training, professional skills training, professional training and graduation comprehensive, Graduation Project (Thesis) and other five parts to build a curriculum.

4.4. Strengthen the practice of internal and external training base, and promote teaching and research combined with produce

Practice Base, is to train talents of qualified engineering and technical applications one of the prerequisites is to improve the quality of technician education, adhere to the technologist educational characteristics of the guarantee. Teaching base construction should be to foster the students ability to apply technology and professional quality subject to the industry of advanced technology and social development level of standards, school development planning target the majors based on the actual needs to regulate, advanced and effectiveness of the principle, and the production, construction, management and service consistent with the linear form a real or simulated professional environment. Close of school practice teaching base for training, production and research to accelerate the pace of business as soon as possible, even the school run a new system of vocational education.

4.5. The establishment train technicians to a teaching model of student ability, teaching management system

(1), teaching model, in-depth study "of highly skilled labor to strengthen the Ministry of Education and Training Work", in teaching methods, teaching methods, on a bold attempt to reform, individualized, interactive promotion of inspiration, discussion and other research teaching methods, combined with characteristics of the course, the course is to teach and engineering practice, to reduce validation experiments, increasing the design of the experiment, open professional laboratory, dilute the classroom, the difference between field and laboratory

(2), in the teaching management system, the implementation of flexible credit system. Of different types, different levels of students individualized, according to their interests, strengths and basic conditions to choose their own development needs of the curriculum, changing school year, while for the credit system, efforts to establish a complete set of enrollment management, student management policies.

4.6. Reform of personnel training evaluation model

To test the qualitative change in the traditional model. Evaluation of public programs will be based on the authority of the test database, the progressive realization of education, examination separation. Courses according to characteristics of the course, in addition to closed book examinations, open book can be used written tests, interviews, write-on training and training reports to reflect the

actual ability of students to a variety of means. Assessment of teaching practice, the actual results of the work as much as possible consistent with the identification and assessment of the typical case of the respondent students, assessment of results.

Students actively encourage students to participate in various science and technology competitions, skills competitions, participate in a variety of career recognition Grading Test, research, and passing scores are included in the credits.

Construction of the "capabilities-based, highlighting the ability of students to vocational training" training model

5.Construction of the "capabilities-based", highlighting the ability of srudents to vocational training"training model

According to feedback from the employer community, professional interviews, multi-channel understanding of the situation, after the analysis summarized in the curriculum, the vocational training capacity and quality should come first, so we build a Training Mode to high0 light student Professional ability and quality training of professional practice teaching system.

The professional practice teaching system mainly by classroom training, basic skills training, professional skills training, professional training and graduation comprehensive, Graduation Project (Thesis) composed of five links.

1. classroom training: the curriculum, in accordance with "must, enough, practical" and highlight the princeples of professional ability training of students, around the "computer skills", "networking management and maintenance capability" and "building site management and maintenance capacity "Set course. All of the professsional class of professional training courses were arranged, of which a considerable portion of the theory and practice courses close to 1:1.1 ratio. This phase mainly through imitation, to consolidate knowledge and develop skills.

2. professional skills training: The professional arrangements for computer network technology, databases, application technology, ASP.NET programming, web design and production, Web programming, etc. 5 of 9-week course of professional skills training, outstanding professional competence training. To achieve the transition from imitation to the application, from which improve their professional ability.

3. basic skills training: The professional arrange-

ments for entry in English, program design, OFFICE software applications, local area networking and job interviews, and a total of five semesters of basic skills training, and strengthen the skills of the students mastered the basic proficiency program, students proficiency in the application of basic skills.

4.Comprehensive Training and Professional Graduation: In order to develop students ability and quality of integrated applications to improve their practical skills, the professional expertise arranged three weeks and eight weeks of comprehensive training graduation practice. Can be simulated practice on campus or corporate internships, students in a simulated environment or real professional development of vocational skills and quality of integrated applications.

5.Project (Thesis): The arrangements for the ten weeks of professional graduation project (thesis), to further develop students ability to learn, work ability, innovative thinking and ability.

The students actively looking for work from the actual social issues as a graduation project topic, under the guidance of teachers, serious study of ideas and methods to solve problems, to innovation, a great job training the students the key skills. Such as 05 technicians technician classes Xie Qinghua University students developed per0 formance management systems, e-commerce website development of home appliances through-train system and so on.

6. Conclusion

In conclusion, from our students adhere to highlight the characteristics of vocational education capacity-building, we've received from a larger income, made to some experience. However, adhering to the whole process of running characteristics inherent in this or that do not, still need our continuous efforts and innovation to further improve our professional characteristics, in order to cultivate a more consistent application of the social needs of higher technical expertise.

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