

Thinking about Promoting Scientific Innovation Development of Vocational Technical Education

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Abstract – Vocational and technical education is an education that is as important as general education in our country. It is also an important foundation for social economic and cultural development. Vocational and technical education is a continuous and permanent education, which has trained generations of laborers and builders for our country. This article aims at analyzing the current situation of vocational technical education, deeply thinking about the development of scientific innovation in vocational technical education, and putting forward the countermeasures to promote the development of scientific innovation in vocational technical education, and advocating the vigorous development of vocational technical teaching innovation.

Keywords – Countermeasures, Educational Philosophy, Scientific Innovation Development, Vocational and Technical Education.

I. INTRODUCTION

With the rapid development of the economy and the gradual deepening of reform and opening up, China is facing more and more fierce international competition. The rapid development of the global economy and high technology has deepened the exchanges and communication between different cultures, making China seriously lacking all kinds of talents that can be connected with the international community. Therefore, this requires China to pay more attention to vocational and technical education, accelerate the development of vocational and technical education, change traditional educational concepts and modes of thinking, realize innovative vocational and technical education in the true sense, and cultivate new talents adaptation to the international economy and in harmony with our society and economy. The development of scientific innovation in vocational and technical education. It is mainly from the concept of education, teaching means, teaching content, teaching methods and the improvement of teachers' quality and other aspects of simultaneous innovation, which is also the most important task vocational and technical education faced in China.

II. CURRENT SITUATION OF VOCATIONAL AND TECHNICAL EDUCATION

2.1 The Student Crisis of Vocational technical Education

In recent years, most vocational and technical colleges have seriously affected their students due to the expansion of general colleges and universities. The number of students shows a clear downward trend, which has been going on and on. Especially in the more developed economic large and medium-sized cities. A few years ago vocational and technical education began to become a poor education in society. In recent years, after the middle school entrance

examination, students with scores above the general high line have chosen general higher education, and students with lower scores and poor grades will have to choose vocational schools. This has become a consensus in society.

2.2 Low Participation in Vocational and Technical Education

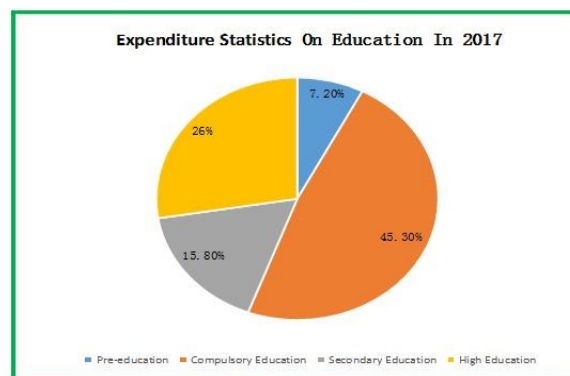


Fig. 1. Expenditure Statistics on Education in 2017.

Table: Statistical Analysis of Higher Education in China in 2017.

Classification	Number Of Institutes	Number of Students (Ten Thousand)	Total Investment In Education (Billion RMB)	Financial Input (Billion RMB)
University	2442	2391.3	1106.48	815.70
Vocational Colleges	1297	1022 (990 Public)	11.24	8.23

The small area occupied by arrow indicates the government's investment in Vocational education in Figure 1. It is 1 % of higher education institutions in above the Table. Low investment is one of the reasons for the difficulty of vocational and technical education. The cost of vocational and technical education is higher than the cost of general education. Therefore, more expensive is needed to develop vocational and technical education. But the cost of education invested in our country disparities in distribution to general and vocational education. And there is less cost of investment in vocational education. Due to the insufficient funding for vocational education, many facilities in vocational colleges are ageing. The laboratories and equipment are insufficient, which seriously affects the quality of their teaching.

2.3 Low Level of Vocational and Technical Education

Due to the late start of higher vocational education, the ability to run schools is low, which directly affects their level of teaching. The quality of vocational and technical education is still not satisfactory to the general public. At present, the formation of higher vocational colleges is mainly from the original high school restructuring, better

conditions for secondary school promotion, integration of several secondary schools, University held, private enterprises invested and established. As a result, the types of vocational schools are varied and the ability to run them varies. Even some schools still follow the traditional mode of running schools and can not adapt to the needs of the market. Most vocational schools in terms of setting up majors are similar, have no characteristics, and have a low level of teaching.

2.4 Lag behind about the Concept of Vocational and Technical Education

Due to the influence of traditional educational concepts, people are less likely to respect vocational education. Therefore, in the choice of education, it has formed a wrong idea that emphasizes culture, theory and general education [2]. Despise skills, application and vocation- -al education. It is generally believed that good students go to key middle schools and those with average grades go to ordinary middle schools. However, those with poor grades go to vocational schools. From the roots, it is determined that there is no future for students in vocational schools, so that students in vocational schools can not improve their opportunities for further studies, and only enter the society with secondary education, seriously misleading people's views on vocational schools.

2.5 Vocational Education Policies are not Compatible

Vocational education and general education are independent and separate from each other in the traditional education system. It is also because vocational education is terminal education, and general education can go to doctoral education. As a result, people are left with the impression that general education is superior to vocational education, and general education and vocational education are mutually exclusive, and there is no possibility for students to transfer to school.

2.6 Employment Difficulty

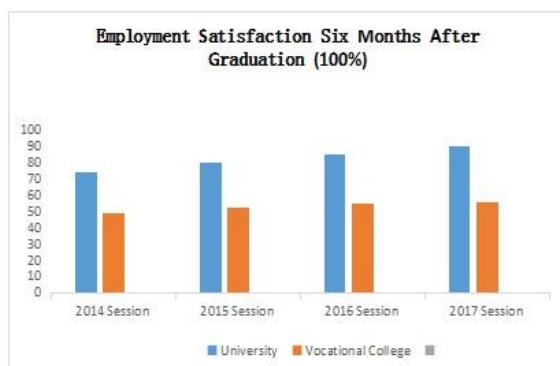


Fig. 2. Employment Satisfaction Six Months After Graduation.

Figure 2 shows the students' employment rate of vocational colleges is far lower than that of ordinary Universities. In recent years, most of the recruitment information for enterprises is aimed at highly educated or famous university students, which leads many enterprises to look only at academic qualifications and neglect their capabilities. This wrong employment model has seriously misled the society's erroneous understanding of educational

background. As a result, it is more difficult for vocational school graduates to get a job.

III. SOLUTIONS TO PROMOTE SCIENTIFIC INNOVATION DEVELOPMENT OF VOCATIONAL TECHNICAL EDUCATION

3.1 Enhancing Communication between Vocational Education and General Education

Strengthen the support of middle and high vocational and technical education. We can implement the preferential admission policy for graduates of vocational schools and further open the way for graduates of vocational schools to enter higher vocational colleges or universities [3]. In addition, a higher vocational education system corresponding to the specialized, undergraduate and postgraduate levels of ordinary colleges and universities should be established. Changing the model of restricting higher vocational education to college level so that students receiving vocational education can also obtain higher academic qualifications. In this way, the final nature of vocational education can be broken down in terms of root causes, thus attracting more students to choose vocational technical education voluntarily.

3.2 Increased Support for Vocational and Technical Education

Vocational and technical education can not be developed without the support of the state, but it is not enough to rely on the deployment and measures of the state. Local governments at all levels and all sectors of society should also actively participate. We support and care for vocational education, coordinate the investment in general education with the investment in vocational education, and form a state of affairs in which the whole people pay attention to vocational education. The basis for achieving this is to correctly understand vocational education and establish a new concept for the development of vocational and technical education [6].

3.3 Transforming Educational thought and Idea

Traditional education plays an indispensable role in the social and economic development of our country, and teachers' hard work and dedication make a great contribution to the cause of education. However, as a teacher in the new era, only by emancipating the mind, changing ideas, keeping pace with the times, and actively adapting to the needs of the new era, in order to cultivate new talents that are in harmony with social and economic development, and establish the concept of cultivating students' innovative ability to educate [1]. Strengthen the educational philosophy to encourage students' personal development. Only in this way can we gradually implement the concept of innovative education to the process, plan and content of teaching as well as the education of students' ideas and practical education.

3.4 New Opportunities for the Establishment of Vocational and Technical Education

Vocational and technical education, especially pre-vocational education, fully reflects the concept of lifelong education, not the end of education. Therefore, it has

become the key of the innovation development of vocational and technical education under the new period to combine pre-vocational education with post-vocational education and build a vocational continuing education system based on vocational and technical education.

IV. CONCLUSION

An important component of education in all countries of the world today is vocational and technical education, whose role in social and economic development is incomparable. The development of scientific innovation in vocational and technical education in China is also very important. It is directly related to the construction of socialist harmonious society and the realization of social modernization. From this point of view, it is of great significance to think deeply about the development of scientific innovation in vocational education.

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AUTHOR'S PROFILE



My name is **Yingxin Wang**. You can also call me Jenny. I was born in Zibo city, Shandong province, China in March of 1972. I graduated from Shandong University, which is located in Jinan city, Shandong province of China and got a master degree in tourism management in 1996. After that I went to work in Zibo Vocational Institute. So now I have already had more than 23years' working experience. I'm an associate professor. My research direction is tourism management and vocational education. I love teaching and I have published more than ten professional papers, two monographs, six text books and taken charge of over six research topics above provincial level. My students won the first prize for many times to take part in Shandong provincial skills service competition under my guidance. I will work harder in the future so that my students can adjust to the society more quickly after graduation. Correspondence: Yingxin Wang, Zibo Vocational Institute, Shandong China.

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