

Research on Integration Application of Virtual Simulation Technology and Vocational Education Teaching

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Abstract: *With the continuous development and progress of the Times, the teaching method of vocational education has changed greatly. At the same time, there are some problems in the teaching of vocational education. At present, due to the limitation of school environment, some vocational schools do not have enough space for students to carry out practical learning. In order to break through the limitation caused by environment, schools can use virtual simulation technology instead of practical teaching. This paper mainly analyzes the problems existing in vocational education teaching, and discusses and studies the integration of virtual simulation technology and vocational education. The new normal in the era of "Internet plus" can optimize the practice of entrepreneurship and alleviate the bad mood of college students at the same time. Contemporary college students pay more attention to new things, with the development of "Internet plus", they will look forward to using new tools to carry out innovative entrepreneurial activities, thereby meeting the needs of social development. In addition, college students can also combine the "Internet plus" with new entrepreneurial thinking, to lay a solid foundation for the practice of entrepreneurship.*

Keywords: Virtual simulation technology; Vocational education; Fusion application.

1. INTRODUCTION

With the development of the society, people's living standards improved, the demand for life such as food and clothing live line all standards has also improved, therefore, jobs demand for professionals from all walks of life more, not only requires staff to grasp firmly the basic specialized knowledge, also requires staff to have skilled professional skills, ensure the quality of jobs. The purpose of vocational education is to cultivate students' professional skills and techniques. In order to cultivate students' professional skills, it is necessary to change the traditional teaching mode of theoretical knowledge and pay attention to practical teaching, so that students can learn and master technology in practice and cultivate vocational students' professional skills. Through practical teaching, vocational students' professional skills are constantly trained, so that students can have solid professional knowledge and skilled professional skills when they go out of campus, and meet the demand for talents in employment. The emergence of Internet plus has brought greater challenges to traditional enterprises. The traditional entrepreneurial thinking, which the college students are familiar with in their learning process, hinders the formation of innovative thinking of college students. Therefore, we should constantly promote the idea of "Internet plus" in the innovation and entrepreneurship education in universities, and provide ample opportunities for practice, so that students can form a strong sense of innovation under the new normal, and thus occupy a competitive advantage in the development of new markets. In the process of China's social development, due to the continuous improvement of the economy and the growing influence in the international development, China's foreign exchanges and exchanges are also increasingly frequent, in this case, the importance of English is highlighted. In the education system of higher vocational colleges, English teaching as an important part of its learning also makes students have a certain understanding of western culture, which contains some bad information, which has a certain impact on students' ideological quality. Therefore, in order to eliminate this influence, we can build a complete set of Ideological and political education system to help students establish correct socialist core values.

2. PROBLEMS EXISTING IN VOCATIONAL EDUCATION AT PRESENT STAGE

At present, most colleges and universities have set up innovation and entrepreneurship guidance courses for their students, and even received significant support from the government and relevant enterprises. As far as the actual situation is concerned, college students' innovation and entrepreneurship courses mainly focus on theoretical explanation, which is not sufficient for many students with innovative ideas, who can only rely on their own ability to constantly explore the market, with comparatively low success rate of innovation and entrepreneurship. At the

same time, the support of the government and the enterprises is relatively limited, therefore the students who are innovative can not get necessary support. The lack of sufficient experience should be compensated by the Internet plus. The laws and regulations that protect the ownership of creative products need to be further improved and implemented, to guarantee the intellectual property rights of college students. Otherwise many innovative and entrepreneurial achievements might be occupied by others, thus undermining the normal development order. Under the new normal, we need to further arouse the enthusiasm of college students to participate in the innovative and entrepreneurial education in the era of "Internet plus". Now that we have entered the information age, the Internet and other information technology has become an important support for the current social development. On the one hand, the innovation and entrepreneurship education in colleges and universities should consider the changes in students' thinking to arouse a strong interest in participation.

2.1 Students lack interest in learning

In vocational schools, students generally lack interest in learning and have relatively poor self-restraint. If teachers use the previous boring, single traditional theory indoctrination teaching mode, students will be more disinterested in learning. Therefore, teachers should respect students' subjectivity and independence in the teaching process, and timely follow the pace of the Times to innovate teaching methods. As for the school, the hierarchical education method can be implemented according to the basic ability of each college student. It is divided into three levels, as for the A-level students, they can be guided to learn to have the entrepreneurial thinking of the "Internet plus", to develop more creative products with Internet characteristics. B-level college students should pay attention to the effect of Internet education, so that they fully [3] understand the advantages of the Internet, as for C-level students, they should learn more profound knowledge of the Internet to lay a solid foundation through theoretical education. As for the students, they should be encouraged to form an idea of self-learning and lifelong learning. Although they are about to go into society, the students should constantly improve their ability, as it is necessary for students to participate in related competitions. For example, in order to mobilize students to participate in the contest of the entrepreneurship, a curriculum may include some extracurricular display of the works of new science and technology, entrepreneurial plans and other content, which may effectively stimulate the innovative potential of college students. English learning is the learning of western culture. English courses occupy a large proportion in all courses of higher vocational colleges. If students' study for a long time, it will affect students' learning of Chinese culture. Therefore, through the construction of Ideological and political education system in Higher Vocational English teaching, students can effectively keep their confidence in national culture while learning western culture. Students learn the cultural differences between China and the West and identify the advantages and disadvantages of learning culture. Students in higher vocational colleges should have the ability to distinguish right from wrong. English learning contains a lot of contents, which are unique Western cultural contents. If ideological and political education is properly carried out in this kind of learning, teachers can guide students to learn the differences between Chinese and Western cultures.

2.2 The opening hours of the training room are limited

In order to ensure that the equipment of the training room is not damaged, some vocational schools will only open the training room when students are learning the corresponding training courses. In the rest of the time, the training room is closed, which cannot provide opportunities for students to use and practice. Students can not use the equipment for practical operation, resulting in students' hands-on ability, practical ability and innovation ability can not be trained and improved, greatly affecting students' learning of professional skills. In order to ensure that college students go in the direction of "Internet plus" to start a business, we should appropriately broaden the practice platform for innovation and entrepreneurship, so as to arouse the attention of college teachers and students, and promote the innovation and entrepreneurship education of college students with the combination of the "Internet plus" to obtain the expected results. For example, the platform has been developed in an agricultural university the "chuangfei Valley mass entrepreneurship and innovation cloud", which makes full use of cloud computing technology and big data technology to set up micro service system, and uses distributed RPC service framework to increase the system's scalability. On this platform, college students can deepen their understanding of the Internet field through basic knowledge teaching, practical exercises, sensory experience, case application and other parts, and produce many innovative ideas about the future development of agriculture. In addition, the comprehensive application platform also relies on the frame structure and open grid panels and aluminum alloy frames to provide students with a series of "Internet plus" experience such as "intelligent agriculture", "intelligent storage" and "intelligent logistics", and further enhance the level of innovation and entrepreneurship education for college students.

2.3 Over-use aging and damage of training equipment

Due to the limited number of equipment in the training room of the school and the large number of students in vocational schools, multiple students will queue up to use one equipment, which will lead to overload operation of the equipment, accelerate aging, and reduce the service life of the equipment. There are also some students may lack experience in operation, will not use the equipment, in the use of equipment damage. the damage and aging of the equipment in the training room will affect students' practical learning, and there are even safety problems. At the same time, it will also cause financial pressure on vocational schools. Under the new normal, the innovation and entrepreneurship of college students also need the strong support of the government, which can provide them with the right guidance, to help college students to master the "Internet plus" skills, and to make them obtain greater results in the Internet entrepreneurship activities. In the development of innovation and entrepreneurship, the government can host various competitions, while awarding high-quality entrepreneurship projects, and giving loans to support them, so that they have sufficient funds for innovative product research and development projects, which can also attract more entrepreneurial college students to regain confidence.

For example, in June 2020, Chongqing Banan District government launched the competition called "help you set sail", and provided the participants with entrepreneurial experience including standardized participation processes, such as training, trials, on-site inspection, final and other links. All participants can enjoy free entrepreneurship training, and even in the finals, they use the VCR+ defense mode of "Internet plus" competition, and finally select three outstanding entrepreneurial groups and get "excellent project award". In this regard, the local government, for the purpose of strongly encouraging college students to start their own businesses, not only prepared 30000, 20000, 10000 and 5000Yuan bonuses for the winners, but also implemented supporting policies to provide them with up to 3 million discount guarantees. At the same time, a "business incubation base" is set up to enable entrepreneurs to enjoy the significant support from the government.

3. VIRTUAL SIMULATION TECHNOLOGY AND VOCATIONAL EDUCATION INTEGRATION APPLICATION ADVANTAGES

As an important place for college students to realize their self-worth after graduation, enterprises should also take relevant measures to provide high-quality services for entrepreneurial college students, which can not only fully show the outstanding talents of college students, but also promote enterprises to increase their own benefits and speed up the transformation of enterprises. Therefore, enterprises should adopt the mode of "school enterprise cooperation" to educate people, so that they can overcome difficulties while starting business in the context of big internet support and low Internet plus, which can also bring new impetus to development in the future. The application of virtual simulation technology in vocational education can make students better practice learning and cultivate their professional skills. the application of virtual simulation technology in vocational education can also improve students' learning autonomy, reduce the cost of vocational schools and improve the teaching efficiency of vocational schools. the application of virtual simulation technology to vocational education teaching has become a new educational development trend, using virtual simulation technology for teaching, can let students better use virtual simulation technology for practical operation training, through practice to cultivate students' professional skills, professional technology. Using virtual technology for vocational education teaching has the following advantages:

3.1 Environmental protection and safety

In the course of operation, the previous training equipment consumes a lot of energy and has a limit of service life. Using virtual simulation technology for students' practical teaching can save energy consumption, and is safer and more environmentally friendly in the process of using it. In vocational schools, there are some electrical and mechanical majors, there are some potential safety hazards when students use the previous training equipment to operate. Once students lack experience and improper operation, accidents will occur in the equipment and seriously endanger the safety of students. Schools use virtual simulation technology in teaching, therefore, students can use the virtual simulation technology in field simulation practice, after students many times simulation practice, to the operation of the actual equipment with certain operating experience, can give enough in the actual operation of equipment operating skilled, greatly reduce the risk of students caused by operation not skilled. Therefore, using virtual simulation technology for education and teaching is safer and more environmentally friendly [1]. English course in higher vocational colleges is a basic course, and any student needs to learn. In English Teaching in higher vocational colleges, there are a lot of original English learning. While learning English, students can also read many excellent articles. In the construction of Ideological and political

education in Higher Vocational English teaching, English can be used as a carrier to make use of the connotation of English textbooks. In this way, we can not only improve students' English learning, but also improve their ideological and political learning. In the process of learning, we can also improve students' initiative thinking by adding discussion links. We can also educate students through this new way of education, and we can also absorb and discard the excellent culture in the process of learning English the bad influence in western culture.

3.2 Improve students' interest in learning

In vocational schools, most students are not interested in study. If virtual simulation technology is used in vocational education teaching, the novelty of virtual simulation technology can greatly enhance students' interest in learning. At the same time, the virtual simulation technology has really fuck equipment have not advantage, virtual simulation technology can take the course requires students to operating on the computer simulation of practical training, the students need to complete the learning task into a game mode, enables the student to recruit to complete learning tasks through the game, to enhance students' interest in learning. With the continuous development of social economy and science and technology, China's various industries have increased the demand for talents, the increase of social demand for talents has promoted the development of higher vocational colleges, making the scale of Higher Vocational Colleges continue to expand in the current social development of our country. In the development of China's colleges and universities, no matter at any stage, attach importance to the education of students' cultural theory courses, but not too much education of Ideological Courses, which leads to students' lack of their own political and ideological ideas, and there are some conflicts in Ideological and political learning. English is an important course in the study of higher vocational colleges. In order to effectively enhance the ideological and political education in Colleges and universities, ideological and political education can be run through English teaching to cultivate students' comprehensive quality development. This paper mainly analyzes and studies the construction of Ideological and political education system in Higher Vocational English teaching.

3.3 Not restricted by time and space

Using virtual simulation technology for teaching or training can not be limited by time and space. Virtual simulation technology can realize the simultaneous use and operation of many people online, and there will not be insufficient equipment for students' training due to the limited number of equipment and the large number of students. In addition, the use of virtual simulation technology for practical operation technology training, but also to achieve training anytime and anywhere, as long as students have a computer, they can be in dormitory, library, classroom and other places for practical operation technology training. The development of society has led to the development of global economy, which makes the contact between countries become closer. English is mainly used in communication with people from different countries. The development of global economy has led to the attention of our country for English learning. The development of English education in China is relatively short, so it has not made a good breakthrough in the process of education. With the development of science and technology and the close communication form of various countries, many western cultures have poured into our country, resulting in the collision with Chinese culture. In this case, the world values of vocational college students who are good at accepting new things are extremely tolerant. Therefore, in this case, it is very important to strengthen and construct the ideological and political education system in English curriculum.

3.4 Save school expenses

There are a lot of vocational schools want to change the actual operation equipment, but because of limited funds can not achieve, and the emergence of virtual simulation technology, can help schools to solve this big problem. the school can establish a virtual simulation training room, which can not only meet the needs of students of different majors to carry out practical training, but also realize the repeated utilization of resources, reduce equipment loss and reduce the school's capital investment.

Applying virtual simulation technology to vocational education and teaching Vocational schools take training students professional knowledge, professional technology and practical experience as the main goal, so it is particularly important to create practical practice opportunities for students. Teachers can use virtual simulation technology to design practical training courses that students are more interested in, so that students can carry out practical training in the course and master skilled professional technology, so that students can meet the demand for talents in their future career. When teachers use virtual simulation technology to teach, they can decompose the technology to be trained step by step and train students in the mode of playing games to make learning and training interesting and attract students to learn.

4. IMPROVE LAWS AND REGULATIONS ON INNOVATION AND ENTREPRENEURSHIP

As a group with active thinking and innovative motivation, college students should help the government further improve the relevant laws and regulations, to effectively protect their independent intellectual property rights, and make reasonable development plans in the light of specific contents, to avoid the loss of the rights and interests of college students. In fact, the current laws concerning entrepreneurial activities are the Company Law, the Legal Enterprise Law, the Guarantee Act, the Contract Law, etc. In order to ensure that college students can get more comprehensive protection in the "Internet plus" environment, the laws and regulations can also be improved according to the characteristics of the Internet.

For example, the Copyright Implementation Ordinance can be added to the protection of college students, so that every college student can enjoy the legitimate rights granted by national laws during the period of innovation and entrepreneurship. For example, in order to solve the problem of sharing bicycles a college student fixed pile back car, he put forward the creative idea of "intelligent no pile return". From the legal aspect, if the related enterprises of bicycle-sharing want to adopt such an advice, they should consult the college student. At the same time, it requires the author's consent when others use the creative idea. Therefore, the laws concerning innovation and entrepreneurship can provide an important guarantee for college students' legal rights in their innovation and entrepreneurship.

4.1 Improve the ideological and political ability of Higher Vocational English teachers

In the curriculum education of higher vocational colleges, teachers play a guiding role. Therefore, in order to improve students' Ideological and political concepts in English learning, teachers' Ideological and political ability should be improved first. In order to effectively improve the ideological and political ability of teachers, teachers need to have higher political quality and professional quality. There are many special Western cultures in English courses. Teachers will also be impacted by western culture when they teach the course. At this time, if they want to be free from the influence of western culture, teachers themselves should learn from political theory As for the cognition of the socialist core values, as long as the teachers themselves stand firm in the process of English education, they can enhance the possibility of the construction of Ideological and political education system in English teaching. In English curriculum, students' learning of Ideological and political ideas is also partly from teachers. Therefore, teachers, as the teachers of the course and the transmitter of culture, can have an impact on students only if they have a high ideological and political culture.

4.2 Clarify the media of Ideological and political education in Higher Vocational English teaching

The media of Ideological and political education mainly refers to the composition of the content, purpose, and method of Ideological and political education, which have different differences, but are important contents in teaching. In order to clarify the mediators of Ideological and political education in English education, we should first unify the purpose, method, and content of Ideological and political education. Only by keeping the three consistent can we enhance the ideological and political education in English learning. In Higher Vocational English education, the construction of Ideological and political education system should take patriotism as the core and moral education as the foundation, to improve the overall development of students. Secondly, the success of the construction of Ideological and political system in Higher Vocational College English teaching depends on the innovation of Ideological and political education mode. Only through innovation can the ideological and political system be better integrated into English teaching [3]. To effectively construct the ideological and political education system in English teaching, teachers should not only strengthen their own study of ideological and political courses, but also enhance the enthusiasm of students and ideological and political teaching Only in this way can ideological and political education play a beneficial role in English education.

5. CONCLUSION

The application of virtual simulation technology to the teaching of vocational education has become a popular teaching method. Virtual simulation technology can not only bring convenience to students' practical operation and training, but also help schools reduce certain pressure. Students can better master their professional skills through learning and practice and practical operation under the virtual simulation technology. When entering social work, students can better meet the needs of professional talents. At the same time, the application of virtual

simulation technology in vocational education and teaching can fully stimulate students' interest in learning, reduce the cost of students' investment, improve teaching efficiency, cultivate students' professional skills and create more excellent professional and technical personnel for the society.

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