

# Construction of Higher Vocational Teaching Resource Database and Application of Network Teaching

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**Abstract:** *In the context of China's educational system reform, teachers in higher vocational colleges must change their teaching ideas and actively implement online teaching, so as to make use of the resources of the teaching resource library to realize a shared, open and flexible teaching resource library, and give full play to the synergy to improve the effect of online teaching. This paper focuses on the problems existing in the construction of online teaching resources in higher vocational colleges, and puts forward the corresponding countermeasures.*

**Keywords:** *Higher Vocational Education, Teaching Resource Library, Network Teaching*

## 1. Introduction

With the rapid development of network and other multimedia technologies, China's teaching work has gradually moved towards the digital age. Especially in higher vocational colleges, promoting the development of teaching resources can make full use of the advantages of the Internet and improve the teaching effect. At the same time, the database also includes a large number of job search information, industry trends, etc., which provides a direct reference for graduates' job search and lays a good material guarantee for future career development.

## 2. The significance of higher vocational teaching resource database construction and network teaching

### 2.1. Construction status of teaching resource database in higher vocational colleges

At present, under the background of information development, higher vocational colleges in China should build a teaching resource library with its own characteristics, mainly including teaching explanation and demonstration, case push, digital media materials, etc., which can not only ensure the teaching quality, but also answer students' employment information consulting questions at any time. However, at present, some vocational and technical colleges do not integrate Internet resources when building teaching resource databases. [1]The construction of online teaching resources has nothing to do with reality and students' situation. The degree of compilation is not enough, and the practice is not enough, which is difficult to adapt to the education of Higher Vocational colleges.

### 2.2. Making full use of the advantages of teaching resource database

The construction of teaching resource database in higher vocational schools is mainly through the use of multimedia means, from the perspective of intuitive perception, to stimulate students' subjective initiative, transform the original negative learning into active and collaborative learning, and improve students' self-study ability on the premise of improving teaching effect. At the same time, when implementing the teaching resource database, we should be people-oriented and pay attention to the individualized guidance of people. In the process of shortening the relationship between teachers and students, through the use of high-quality teaching software and digital media, we can broaden students' horizons, so that the overall quality of students can be better developed.

### **3. Problems in the construction of network teaching resources in higher vocational colleges**

#### ***3.1. Lack of management of networked resources***

Higher vocational colleges have a low degree of standardization of information systems, and the collaborative work of multiple professionals has resulted in lax management of the system. In the management, there is no clear division, resulting in the complexity of many resources, unable to correctly identify, no overall coordination, unable to share resources, and unable to make full use of Internet resources.

#### ***3.2. Insufficient utilization of online teaching resources***

At present, the teaching resource database of higher vocational colleges in China is very abundant, but its utilization rate in practical application is low and the number of visitors is small. At present, China's higher vocational colleges lack support and guidance for the teaching resource pool. Teaching online requires a lot of time and energy. As a result, teachers' enthusiasm for teaching online is low.

#### ***3.3. Lack of teaching resources maintenance team***

The maintenance and use of online resources in higher vocational colleges is a systematic project that requires a lot of human and material resources. Because the production of network resources involves editing, optimization and other processes, it requires special software and special personnel to carry out network teaching, which many vocational schools do not have effective management and technical support, and teachers' enthusiasm for carrying out online teaching activities is not high. Due to the lack of maintenance team, online teaching can not be classified correctly, and sometimes there will be inaccessible phenomena. Some teachers posted teaching videos on the Internet, but they failed to learn the latest technology in real time, resulting in some online teaching being watched by no one; Some teachers only upload educational resources through the Internet without optimization, screening and systematic reconstruction[2].

### **4. Strategies for the construction of network teaching resources in higher vocational education**

#### ***4.1. Strengthening the construction of network teaching platform***

Higher vocational colleges should strengthen the scientific design of online teaching, make good use of online teaching resources and improve their utilization efficiency. Teachers should evaluate online teaching and meet certain requirements before it can be applied to the classroom. When using teaching resources, we should fully meet the needs of different disciplines, reasonably select and make rational use of key resources, and minimize unnecessary resources, as well as systematically classify the knowledge of different disciplines; we should also sort out courseware, teaching plans, picture base, and establish a scientific teaching resource base. Through the way of grading, the platform of teaching resource database can be continuously carried out to improve the efficiency of network use. On the Internet, we should strengthen the standardized management of online teaching, and make use of the online resource management system to make online resources can be effectively shared. [3]Higher vocational colleges should strengthen the training of network management talents and hand over network management resources to professional professionals for scientific management. At the same time, we can strengthen the cooperation of higher vocational colleges and use external websites to log in and share information, so as to promote the cooperation of vocational and technical colleges.

#### ***4.2. Strengthening the sustainable development of network resources***

In higher vocational education, we should pay attention to the educational resources of sustainable development. Only high-quality educational resources can ensure high-level educational activities and implement the purpose of education. In the long run, the network education resources of higher vocational colleges should strengthen the funds for network education, and update the network courseware, network video and case question bank. With the help of the online platform, the communication between teachers and students can be enhanced, so as to promote the long-term development of the website. Through the research of students' thoughts, the online learning platform can better meet the needs of students. At the same time, higher vocational colleges should pay attention to

the training of network platform managers to improve their comprehensive business ability and information quality. In addition, the improvement of online teaching evaluation and feedback system has increased the enthusiasm of network management, realized the resource sharing of online teaching platform, improved the efficiency of online teaching platform, and guaranteed its long-term development.

#### ***4.3. Enriching online teaching resources***

Higher vocational colleges should combine the specific situation of students, their own characteristics and professional characteristics, formulate corresponding teaching examples, and add the use of animation, image, audio and language, so as to organically integrate dynamic and static resources, and make the teaching content more vivid. Students can get the teaching content directly on the Internet and set the learning directory. Students can study independently according to the directory. We should enrich the online teaching content, connect the teaching ideas, methods and processes, and fully reflect the close connection of knowledge. In the construction of teaching resource database, teachers can solicit the opinions of students, and constantly improve and optimize online teaching resources according to the development of disciplines; New knowledge content is added in online teaching, which ensures the development of teaching resource database knowledge and promotes the active participation of teachers and students. In online teaching, we should pay attention to the teaching content, and the class time should not be too long, which can make students concentrate and be more interested. In the process of review, we can use the online knowledge structure to list the knowledge points, so as to make students' thinking more clear. Block teaching is adopted to make students' learning more convenient and efficient.

#### ***4.4. Strengthening interactive teaching design***

We can use Internet technology to reasonably design and realize the purpose of teaching. In the process of teaching, teachers should give full play to their positive role in students and improve their interest in learning. In class, teachers can use their leisure time to interact through the Internet to help students solve problems. Through the guidance of teachers, students can have a deeper understanding of classroom teaching. At the same time, students can also discuss through the online platform and improve themselves through continuous learning and communication. Vocational and technical colleges can conduct quantitative evaluation on the use of online platforms, take incentive measures to promote the communication between teachers and students, and encourage teachers to conduct classroom teaching online.

#### ***4.5. Sharing of online resources***

How to realize the effective sharing of online teaching resources in higher vocational education requires teachers and students to change their ideas and give full play to the role of teaching resources. Through the integration and sharing of higher vocational teaching resources, the effective use of higher vocational teaching resource database is promoted. Through online teaching, teachers can answer questions and assign teaching tasks online; Students can consult relevant information on the Internet to expand their scope of knowledge. At the same time, higher vocational colleges and other schools can further strengthen cooperation, set up network elective rights of other higher vocational colleges or institutions outside the school on the network, and provide efficient and convenient network teaching.

#### ***4.6. Strengthen professional training of teachers***

Higher vocational production teaching resource database has the characteristics of system, many disciplines, rich network resources and so on. Therefore, higher vocational colleges can set up special technical teams to develop, maintain and manage network resources; At the same time, the training of curriculum design and production personnel can be carried out in higher vocational colleges to master the development trend of various majors, and constantly update teaching resources, in order to improve the professional ability and the construction of teaching staff, strengthen the editing and production of teaching materials, and improve the systematization and professionalism of teaching materials.

#### ***4.7. School-enterprise cooperation to create an education resource database***

The construction of network distance education resource database in higher vocational colleges should be closely combined with related enterprises. According to the school-enterprise cooperation in running schools, enterprises can deeply put into the whole process of resource database development and

operation in terms of construction fund allocation, research and analysis of the material content of the resource database, and resource database operation and management. Let the enterprise become a resource database investors, users and beneficiaries.

In the allocation of construction funds, the service enterprises in the field of educational information should cooperate to carry out the research and development and construction of online teaching resource database. Enterprises not only need resource database construction funds, but more importantly, they can provide technical consultation for the construction of resource database, such as the development and design of resource material content, course platform design scheme construction, etc. In the raw material accumulation level of the resource database, we should cooperate with professional and technical enterprises.

On the premise of research and analysis, the training plan, curriculum setting and professional education standards should be clarified. More importantly, in the process of integrating high-quality curriculum, cultural and educational resources and enterprise technical data, the teaching content should be closely related to the industry and enterprises, and at the same time, the cultural and educational resources should be deep and shallow. At the level of management, cooperative enterprises operate online teaching resource database in a market-oriented method.

According to the classified management of the resource database, the specific contents of some resource databases are applied by the market operation system management method, and the "resource database training" is completed according to the new project relocation. It not only overcomes the serious shortage of long-term maintenance funds of the network distance education resource database, but also overcomes the problem of time and space limitation that enterprises must conduct regular training, and creates a new idea in the construction of the network and the resource database.

#### ***4.8. Expand the use of classroom teaching resources***

Nowadays, most of the classroom teaching resource library is to read and access, and rarely can be downloaded. One of the key ways of online teaching resource database is to improve the executability of network resource database, expand and optimize its sharing, communication, search, evaluation and feedback.

Implement hierarchical classification management authority for users. Open the permission to teachers to realize the management function of submitting, commenting and downloading resources for free. Teachers upload resources temporarily stored in the audit area, waiting for the maintenance staff to further solve, and then upgrade the resource database. Especially for students in enterprise practice, they set permission retrieval, review, investigation, online investigation and other services, which are beneficial to meet the actual needs of students, and stabilize the effective users of the resource database; to open paid online training courses for enterprises, to facilitate the continuing re-education and other services.

Improve the collection function of the resource database, and accurately search for the resources that users can browse according to the types, production units, keywords and other forms. To implement fuzzy queries.

Improve the interaction between resource libraries. According to the control modules such as interactive communication, community forum, regular launch, online comment, and so on, to complete the interaction and communication between resource developers, full-time teachers, field practitioners, and students. Through these communication functions, the server maintenance staff can timely grasp the feelings of users and adjust the program module of the resource database display platform. Developers get the latest industry developments, and students get timely comments on learning efficiency.

### **5. Conclusion**

In short, with the rapid development of network technology, teaching resource database is a new type of teaching resources, which can effectively integrate and share high-level educational resources, so as to improve the quality of teaching; Through the guidance of network teaching resources, students' knowledge can be effectively broadened and their innovative ability can be improved.

### Acknowledgement

The Phased Achievement of the General Project of the 2020 Jilin Vocational Education and Adult Education Teaching Reform Research, "Research on the Application of Criminal Execution Professional Teaching Resource Database" (Project No.: 2020ZCY151).

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