Research on New Online Courses Adapting to the Needs of Military Vocational Education

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Keywords: Online courses, Military vocational education, Educational technology.

Abstract. Military vocational education is a continuing education for military personnel. It is an urgent task for military vocational education to cultivate a large number of new military talents with high quality. In the transition from academic education to vocational education in military academies and universities, constructing a new type of online course that meets the needs of vocational education is an important part of the construction of information teaching resources. This paper mainly analyzes the status and function of online courses in vocational education. It discusses the basic characteristics of online courses in military vocational education from three aspects: the choice of teaching contents, the organization form of teaching contents and teaching links. Finally, Vocational education online courses should be designed to follow specific principles.

Introduction

During the transition from academic education to vocational education in military academies and universities, the development and integration of various teaching resources have undoubtedly become an important issue for research. As a new type of information-based teaching resources, online courses have the advantages of traditional teaching resources. Especially in the military vocational education environment, the diversification of students' levels and the orientation of posts inevitably require the personalization and practicality of vocational education. Online course (network course) is a web-based course aimed at unlimited participation and open access via the web \cite{1}. Online courses not only provide students with fully personalized learning environment, but also provide strong technical support for practical teaching. Therefore, it is necessary to study how to construct an online course that meets the requirements of military vocational education, provide individualized learning environment for students, and make students at different levels obtain their own needs according to their own needs and learn and practice through the network in a targeted manner. The highly decentralized military regions require that military vocational education rely on the military comprehensive information network and the military wireless communications network to enable the entire army web site domain name accessibility analysis and access to go beyond the traditional classroom teaching space to build an online virtual teaching space \cite{2}.

Status and Function of Online Courses in Military Vocational Education

The Online Course is the Supplement and Continuation of Military Vocational Education

The military vocational education of our army is closely linked with the training of the military academies and the training of the army, forming a "Trinity" new talent training system \cite{3}. Military vocational education is not an end education, but an important part of lifelong education. It is a comprehensive education that takes the sustainable development of the military and the individual as its fundamental starting point. The short time of military vocational education, heavy tasks, narrow knowledge and strong pertinence make it difficult for students to completely meet the training
objectives during this period. Moreover, new changes in their positions may also affect military vocational education. Impact, how to make up for these deficiencies? With the deepening of military information construction, a hardware platform is provided for the remote and networked military vocational education. As one of the most important forms of modern educational technology, online courses can make up for the above shortcomings, extend the boundaries of time and space and expand the space of military vocational education, which is an organic extension and necessary complement to military vocational education.

**The Construction of Online Courses is an Important Part of Improving Teachers' Ability and Teaching Quality in Military Vocational Education**

The design of online courses usually includes the determination of course objectives, the integration of existing teaching contents, the analysis of teaching contents, the design of learning process and the concrete design of course presentation. The online course construction process is a high technology content of the system engineering, teachers of knowledgeable and specialized requirements are more prominent, in particular, require teachers to have a certain degree of professional knowledge and skills, but also master the operation of computers and other equipment Skills and related software development skills. Teachers should integrate the curriculum content, analyze, find relevant information for students to use in the process of learning, but also consider ways to let students learn knowledge and training positions, at the same time, but also consider ways to improve students Interest in learning, the learning process in the end. All of these jobs will help improve the quality of teachers and the teaching staff in military vocational education.

**The Online Courses Set up an Independent and Cooperative Education Platform for the Military Vocational Education**

The network provides a modern educational platform for the dissemination of information. The online course has the characteristics of large information capacity, fast propagation speed, good interactivity and students as the main body. In the military arena, the Internet has boarded the stage of history as a new style of warfare. The development of the network also provides the necessary conditions and material basis for military vocational education. With online courses, trainees can cross the time and space to exchange relevant topics, division of labor and collaboration; can choose their own learning resources according to job requirements. The use of online courses will bring new vigor and vitality to military vocational education, make new changes in the teaching style of military vocational education, and promote military vocational education toward modernization.

**The Online Courses Provide Teaching and Learning Resources for the Military Vocational Education**

There is no long time to carry out vocational education in our army. All colleges and universities are exploring the rules of running schools, summing up and accumulating experience in running schools, and constantly enriching educational resources. The time of the online course is not long, especially in the military vocational education colleges and universities to its development research is still in the beginning stage. Online courses are different from other courses. All curriculum contents, required video materials, case databases are placed on the Internet. Whenever and wherever, trainees can view relevant information and contents according to their needs, and do self-learning. At the same time, trainees can upload data to online repositories and enrich them with rich experience and experience.

**Characteristic Analysis of Online Courses in Military Vocational Education**

**According to the Choice of Teaching Content, Online Courses Should Meet the Different Levels of Learning Needs**

Due to the different training levels and types of military vocational education, multiple training objects at the same level and multiple training objects of the same type have formed diversified
learning starting points and learning styles; the degree, individuality and interests of the trainees are different; Combined with the length of time the trainees study, which determines the online course design should support the learning needs of different learning levels of trainees, can give different trainees a suitable learning path recommendations, is conducive to different trainees of learning content The choice, to be deepened.

According to the Content of The Form of Organization, Online Courses Should be Beneficial to Learner Autonomy

The design of online courses should reflect and promote the efficiency of e-learning and give full consideration to how to help learners to improve the efficiency of self-learning. Military vocational education has a clear education goal, a wide range of educational tasks, in addition to the traditional course directory of the linear navigation system, knowledge-centric non-linear, divergent navigation systems, it is necessary to clearly design different levels and different positions And different levels of navigation systems. Military vocational education has a high starting point, high-tech content and flexible teaching methods. We cannot equate a book with an online course because most of the traditional teaching materials are in the classroom, with teachers and students facing each other Explain, exchange and answering questions and other links. In cyberspace learning, however, the design of the subject content system should be considered in terms of how to help and promote learning. Although network is usually used for making students themselves easy to arrange learning process during online education, it is also enable students to acquire knowledge [4]. The performance evaluation and questionnaires show that information-teaching is helpful in improving students’ learning results and cultivating their independent learning capability [5].

According to the Teaching Point of View, Online Courses Should Highlight Practical Functions

Military occupation education course type is often subject type, subject type, special type. In the course of teaching, subject teaching, subject research, problem teaching and case teaching are generally adopted. The teaching process is very practical, and the main forms of teaching are experiment, practice, camping, drill, exercise, and post exercise. Therefore, the design of online courses should include some modules of practical ability training, and all kinds of instruments and equipments can be designed through multimedia technology, virtual simulation technology and other virtual experiment environment, for learners to operate online.

Design Principle of Online Courses in the Military Vocational Education

The Principle of Pertinence

Online courses should reflect the characteristics of military vocational education, highlighting the targeted. The principle of military vocational education requires that its training objectives focus on and clearly point to the training of specific job needs. Therefore, according to the requirements of job and post group, the knowledge and ability structure should be clearly defined, the curriculum objectives should be established, the curriculum structure and teaching content should be optimized, the curriculum system should be constructed scientifically and reasonably, the knowledge and skills should be emphasized, and the online courses should be fully embodied The importance of practical teaching and practical ability training, the practical skills of students as an important part of network teaching.

The Principle of Practice

The online course should be combined with the actual forces of the army and highlight the practicality. The principle of the ability standard of the military vocational education requires that the vocational education should take practical teaching as the main body. In the development of the online course, to play the computer simulation and virtual reality technology on the one hand, the function of virtual scene environment of the teaching, so as to create the actual similarity with the
military practice environment, let the students in the operation training with real audio-visual experience, psychological feelings in the environment, in order to adapt to the demand of talents in the army. On the other hand, we should make full use of the case of the army and highlight the practicality of the course. Case teaching has pertinence, inspiring and authenticity in the online course teaching case is the creation of a real or realistic scenario by using multimedia technology, showing the real events or problems associated with the current study subjects as the center of learning content, have some knowledge of the incident or problem of thinking, analysis of the use of inspire learners, enhance the perceptual knowledge of the forces of the practical problems, improve the ability to analyze and solve problems. The rational use of teaching cases in the online course can achieve twice the result with half the effort.

**The Principle of Cooperation**

The essence of military vocational education is a typical professional orientation education, not based on the construction of knowledge structure, but aims at improving ability. Its characteristics are to meet the needs of army construction, and the evaluation of troops is used as teaching inspection standard. It is not enough to train the applied specialized talents with the satisfaction of the army. Troops demand for specialized personnel in the unceasing change, to keep up with the demand change, whether professional college teachers, teaching materials, training venues and equipment etc. most of the existence of certain difficulties, and the design of the excellent online courses may be a good solution to this problem. At the same time, in the development of online courses, we should strengthen cooperation with the army, invite managers and technicians of the first tier units to participate, and integrate the management, technology and equipment requirements of the army into online courses.

**The Principle of Timeliness**

The online course should be adapted to the needs of the development of new technology, and it should be timeliness. At present, after the completion of many online courses, it is not enough to improve, enrich and improve the course. The development of technical position requires professionals to update knowledge and skills constantly. Only by mastering new teaching resources and new knowledge and skills can students constantly adapt to the requirements of post. Therefore, the construction of online courses should focus on the requirements of new technologies, new knowledge and new skills. We should keep updating dynamically, so that the contents of online courses can be continuously enriched, improved, adjusted and improved to meet the new requirements of army for talents in the new technological environment.

**The Principle of Modularization**

The online course should meet the needs of multi-level teaching and highlight the modularization. Military vocational education has the characteristics of multiple training objects and diversified training levels, which requires great choice in learning methods and learning contents. The online course development should fully consider the different characteristics of education objects and different occupations, the teaching content is divided into modules to provide reasonable and flexible way of learning, learning resources, adequate and reasonable evaluation target and credible evaluation results for the object of education, provide a suitable space for the development of student diversity. On the one hand, we should take learning process design as the center and divide teaching contents according to professional training objectives into basic modules and expansion modules, so as to satisfy learners' selective needs for learning content due to different interest and different levels. On the other hand, the curriculum resources library to be built to the sharing of information resources utilization for the open system, there should be a lot of optional modules, so that learners in a certain range on the basis of reasonable selection of learning modules learning, their occupation development direction, to achieve their post training objectives.
Conclusions

The objective of this study was to understand which the most beneficial course structures are, and which course design approaches enable the students to learn with minimal face-to-face interaction with a teacher [6]. In the process of constructing online courses, teachers should incorporate the educational thoughts and laws of military vocational education into their teaching. The teachers should meet the requirements of military vocational education in terms of the organization of teaching contents, the application of teaching methods and the division of knowledge modules. At present, the research on the theory and practice of online courses in military vocational education are in the initial stage. We should pay close attention to and study in depth the development trend and impact of online course, actively explore practices and speed up the in-depth integration of online course and military vocational education [7]. We should see its advantages in military vocational education and the construction of a lifelong learning system, and increase the research and construction so that the construction and application of online courses on a new level.

References