The Exploration Model of New-Type Software and the Application in the System Exploration of Teacher Management

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Abstract. During the software process, the primary work is selecting the software exploration model and software process that suitable for the practical condition. This article describes and summarizes the exploration model of new-type software. Moreover, it discusses the relations, characteristics, and application field among each model. Adapt the model that based on spiral software of spiral model and research the teacher management system for the colleges and universities.

Keywords: Software exploration model, component element, spiral model, teacher management system.

1 Introduction

With the development of education business after reform and opening up, the strategy of taking the “double-qualified” inter-disciplinary talent training as the major in building teachers scale. It largely promoted the further development of the education business. In other words, the significance of building “double-qualified” teachers scale culture not only requires teacher advance with the time and overall innovation, but also requires modern teachers to have a strict self-restraint requirements. That means, in addition to teach responsibility, comprehensive professional knowledge and skills, and skilled practical experience, the higher inter-disciplinary professional quality is also needed. This can comprehensively enhance the national teacher industry standard, and promote the development of education business. Therefore, in the current situation, to strengthen the building of "double-qualified" teachers scale training has great guiding significance and practical value to the improvement of the educational quality in higher vocational colleges of China.

2 Significance of Building "double-qualified" Teachers Scale Training

Largely build and develop inter-disciplinary talent is the major task of higher vocational education. Higher vocational college is an important part in the national education system. The comprehensive development and construction of higher
vocational colleges is conducive to the strategy of rejuvenating the country through science and education. Especially in the stage of full access to the well-off society in our country, the higher vocational colleges have the arduous historical task by themselves. Firstly, in the situation of technology and economic coordinately comprehensive development, the need of personnel training improves unceasingly. There is under the urgently requirement of updating the concepts in the national education business for the further improve teaching and learning. Moreover, the teaching content innovation, the teaching system and teaching method improvement is also need. Secondly, in the knowledge economy age, knowledge and technology are primary production capability. This means trend of global competition is becoming increasingly apparent, especially the market competition increases strongly. Thirdly, in the "Tenth Five-Year" period until now, our country has already profoundly cleared the system of personnel training mode in higher vocational colleges. It means it is enable to coordinate the comprehensive development of social progress. In other words, higher vocational college will be the main part of the national education business. Train the inter-disciplinary talent and increase the training efforts will be the focal point of improving and promoting education business development.

Comprehensive and coordinated development of higher vocational colleges must take "double-qualified" development direction as the foothold. The key of education development is the academic staff. From the very beginning, the scale construction of China's vocational education teachers was using the non-modular and non-professional teaching body. For example, at that time, many vocational colleges would deploy academic staff from middle school, while academic staff in higher vocational colleges are mainly came from regular institutions. This un-regularization and un-vocational teachers switched to this job without training, and constrained the forming of the higher teachers’ teaching quality. It can be seen that the professional capabilities of teachers in our higher vocational college is quite limited, which chiefly appeared in lack of working and teaching experiences. For this, based on this situation, in 1990s, the former state education commission proposed the idea of “double-qualified” teachers. This is in order to enhance the practice and professional capabilities of the academic staff, in order to gradually and coordinately promote the adverse current situation in professional competence of teachers, teaching body quality, and teaching body scale limitation.

On the one hand, the development of "double-qualified" teaching body is the key to improve the higher vocational education. Moreover, from the global point of view, the development of vocational education is the trend of the times. Promote the domestic education business attaching great importance to building “double-qualified” teaching body scale should be the inevitable choice. Especially along with decades of reform and opening up, the traditional industries is under the continued improving. The high-tech productivity developed even rapidly and many products replaced increasingly frequent. At the same time, a lot of economic structural adjustment pace continued to accelerate, which caused the service standards of the tertiary industry reached an unprecedented increase. To this end, as an important part of national education business, the higher vocational teachers are bound to accompany the current situation. Moreover, they need to enhance and make a change, while as much as possible to train or create a group of “double-qualified” teachers with strong management capabilities, service level, theoretical knowledge, and