Research and Discussion on Project Cluster Teaching Mode Based on the Enterprise Level Application

Wenling Gao

Abstract

Currently, the country promotes with great effort the university should the application specific education, speeds up constructing to take getting employed as the guidance modern vocational education system. In order to strengthen the vocational skill ability of student and enhance the employment competitiveness, this article proposes enterprise application-based project colony educational model. In the teaching process, the school subject knowledge education and business skills needs of the enterprise integration, the use of enterprise program teaching, so that students can not only receive professional knowledge of the system education, but also the ability of professional application of formal training and training, after graduation the students can quickly adapt to the work of the business requirements, to achieve the purpose of application-oriented teaching.

Keywords: Enterprise Level Application; Project Cluster; Teaching Mode

1. INTRODUCTION

According to Ministry of Education statistics, in 2014 our country college graduates is 7270000 people, in 2015 is 7490000 people, in 2016 the university graduates achieve 7650000 people that sets a record high again. Each year a large number of college graduates into the community facing the following main problems: one is the large number of graduation, plus previous students, vocational, vocational students lead to employment pressure; the other is the enterprise needs a lot of services in production Line of high-quality technical and technical personnel, but fewer students meet the conditions. One of the main reasons for this situation is the need to optimize the training program and the professional structure of the discipline, and to improve the teaching mode and promote the vocational application of ability education to meet the needs of the job skills of enterprises.

The third plenary session of the eighteenth explicitly put forward to deepen the reform of the education field comprehensive, in-depth on the fusion, between production and education cooperation, we will accelerate the development of modern vocational education system. Premier Li Keqiang to speed up the development of modern vocational education has made the deployment, clearly put forward to speed up to build modern vocational education system, and guide a group of ordinary undergraduate course colleges and universities to the application of technical transformation of colleges and universities, and as is issued by the

1Xi'an International University, Xi'an, Shaanxi, 710077 China
state council on accelerating the development of modern vocational education decision ‘and ‘modern vocational education system construction plan’ of one of the key tasks. In June 2014, the Ministry of Education Vocational Education and Adult Education Division, said Ge Dao Kai, the State Council proposed to promote the transformation of a number of undergraduate colleges and universities, the core of this development is to establish a classification system of Chinese institutions of higher learning. They guide a group of schools to transition to the development of applied technical institutions of higher learning and the transition school can be a new school, but also a long history of the school that can be most professional, while it can be part of the professional. He said that regarding must reform for the independence establishes the independent college of college, the country encourages them to locate for the application technique type college, after 2000 establishes the university newly, encourages them to locate for the application technique type college. Under the directive of country, many universities take the social development and career development demand as the guidance and how stepped to train applicable talent the road of exploration.

2. The Content of the Mode

In colleges and universities, many middle and old-aged backbone teachers, in the long-term education and teaching has been adapted to the academic, theoretical system under the teaching mode, that is, the main content of classroom teaching, experimental practice is based on textbook content, which and the real needs of the combination of poor post. Teachers perennial speaker two or three classes, each course of teaching content has some limitations, knowledge of the expansion is limited. Although students have studied many courses, but the transverse linkages between the courses, and the vertical integration of production practice, interdisciplinary integration between the students the students are perplexed that cannot be used flexibly. In order to raise the teaching level, connects rails with post, meets the employer need, many universities actively explore the new course curriculum system and teaching media, locates to the specialty again, enhances the school business cooperation, breaks the conventional way of teaching, with advanced teaching media.

However at the same time each university, in the specialty locates, the training characteristics, superior as well as in the teaching level has very big difference, the student quality good and evil intermingled of training. On the other hand now country, although the advocate education should application specific, but many teachers will neglect the vocational skill ability and training and training of practical utilizing ability in the way of teaching. Depends upon the school business cooperation related to training of application ability, the arrangement student goes to the enterprise study and practice, instructs through the enterprise teacher, however the enterprise practice time of student after is limited, short that cannot only make the student obtain the occupational ability exercise through the enterprise practice fully. From this, in view of educational model present situation, pondered at present suits the educational model of enterprise application, we propose the following mentality according to the PDCA pattern.
P (plan) first ponders the plan in brains, the issue that this educational model must study, completes any content that achieves any goal. Then determined issue that must study is the education should application specific, the university to reform is mainly solves the connection issue between teaching and employment; D (execution) the policy and goal in brains transforms, according to the known university and current social situation information, proposed the concrete solution: In the teaching enterprise post work process-based the project colony educational model, and defers to the different objects, contents, method, organization, project, environment to operate in the process of implementation; C (inspection), to implementing the effect of this educational model must examine, making the student, colleague, enterprise and society appraise; Finally A (revision) adjusts this educational model according to the result of appraisal, to continue to circulate repeatedly such as on process, a process circulated that solved some problems with the issue that has not solved entered the next circulation, such multi-step rose and can continually improve and finally solved the problem that we asked.

In the course of the study, respectively, from the perspective of enterprise and school, and constantly adjust the curriculum system to meet the requirements of the job objectives, here focused on the need to address the subject of knowledge and professional ability of the comprehensive training. Through researching the route, the author puts forward a teaching model which integrates subject knowledge education and professional ability education. From the angle of enterprise application and vision, the subject knowledge education and vocational skills education are merged into two forms: school-curriculum, enterprise-position, which is based on the work process of project cluster teaching mode. Teachers in the school during the course can be in accordance with the teaching requirements of the model to train students' professional competence.

This post work process-based project colony educational model concrete method is: In the school practice, in view of each time the curriculum subject unit, the creation professional situation, the job scene and study scene that needs the enterprise fuses mutually.

Teaches to unify with the skill request that actual project needs the curriculum knowledge and in the past will scatter to various curricula knowledge nodes connects with the actual project, teaches to complete a complete project teaching each time. Along with knowledge from easy to difficult, the project also from simple to complex, continually expands accumulates, circulates to form a tower footing project colony teaching process repeatedly. In the concrete implementation of teaching, with this educational model, along with the arrival of new semester, the project case of teaching also from easy to difficult, simultaneously unceasingly joins the new curriculum knowledge node to the project in each time, starts once again, the promotion project difficulty, the knowledge system has been constantly expanded, along with the knowledge node progressive accumulation that carries on the perfect union the discipline knowledge and the general occupational ability. In each semester, students in the learning process are able to accumulate experience of project cases and also gradually learn to use
engineering ideas, experience and methods to solve the problem that combines learning ability and working ability, in line with the requirements of applied education.

3. The Teaching Problems can Be Solved and Advantages

This educational model and traditional educational model are different, may focus on solving the teaching issue: The utility relationship issue of integrity and knowledge of discipline; Classroom theoretical teaching and relationship issue of application practice; Individual academic development with the relationship issue that "double teacher" contingent of teachers constructs which can be summarized as the following procedures.

- The use of case teaching in several projects, to take the work process as the main line, the integrated use of all courses online, through all the knowledge points, which makes the teaching not confined to a single course of teaching, but the courses for the integrated use.
- Completes the study task according to the work flow of enterprise project, enabling the course content to have certain practicality and rationality and sophistication, can solve the expertise systemic structure of student not to be unreasonable, the scope is narrow and study content lag and other issues.
- Based on the working process of the teaching, teachers need to integrate the knowledge of different subjects, in cultivating practical talents to improve the business development level and ability, in line with "engineer" teachers.
- In the teaching, the professional situation of simulating may cause the theoretical study true with progress of production reality, sharpened the occupation application training ability of student.

Through this teaching model can cultivate a project vision, master the complete technical line, have to master the project team building talent, so that students in the employment process greatly improve the competitiveness of employment, breaking the employment difficulties, this is the situation This teaching model needs to achieve the ultimate goal.

4. The Promotion Value

In the applied education of colleges and universities, this kind of teaching mode has certain popularization value, and we can analyze the problem from the listed aspects.

- Optimize the professional structure of disciplines, scientific and rational professional construction. On the basis of application of professional development, the integration of the high quality resources, eliminating the traditional single practice course of attachment and content, strengthen the occupation ability training system and comprehensive that laid the foundation for the optimization of specialty structure.
- The orientation of curriculum system reform is clear. The educative purpose is to let the student has acquired achievements from study, the knowledge-application that can learning serves the society. Through using the case study of based on work process can
according to the content that in the case requests, strengthens the core program, the conformity optimization course content, formulates more suitable this college major course curriculum system, and the key curriculum class hour strengthens, the sub-course reduces, the useless curriculum cancels. Letting the student can learn useful knowledge truly that guarantees this specialized utility development requirement.

- Students' vocational ability. Through the combination of enterprise practical case teaching, students have more contact with the case, the stronger the competitive ability, the more popular with the employing units. Thus, the professional brand to create, for the follow-up enrollment, employment and development have laid the foundation.

- Teaching and the actual demand. Through this mode of teaching, the curriculum knowledge and practical application ability to combine, we can continue to combine multiple courses, integrated use, so that students mastered the relevance between curriculum and practice.

- Teachers' ability to improve the level of business. This educational model is very high to our teacher requests, making the teacher no longer merely only teach 2 and 3 classes. All knowledge that requests the teacher to grasp involving in case study skilled, achieves mastery through a comprehensive study, carries on the close union various curricula skilled while promoting the teacher vocational level to enhance helped the teaching.

5. CONCLUSIONS

In order to strengthen the vocational skill ability of student and enhance the employment competitiveness, this article proposes enterprise application-based project colony educational model. In the teaching process, the school subject knowledge education and business skills needs of the enterprise integration, the use of enterprise program teaching, so that students can not only receive professional knowledge of the system education, but also the ability of professional application of formal training and training, after graduation the students can quickly adapt to the work of the business requirements, to achieve the purpose of application-oriented teaching. Through using this pattern teaching may realize "three fusions, three possesses".

"Three fusions" refer to:

(1) realizes the discipline education and vocational education in the true sense fuses;

(2) realizes the student skill training and theoretical knowledge fuses;

(3) realizes the cultivation of professionalism and professional ability training fuses.

"Three possesses" means:

(1) training personnel with the vision of the project;

(2) training have a complete technical line to master the talent;
training to master the project team building talent.

Finally the goal is unifies for the studies system and occupational ability system the traditional academic discipline knowledge system improvement that achieves the genuine enterprise occupational ability education and solves the student employment problem.

Acknowledgement

This paper is financially supported by the following projects.

1. 2016 annual social science planning fund project in Xi'an (foreign affairs special project): Research and Discussion on Project Cluster Teaching Mode based on the Enterprise Level Application (NO. 16IN18).


References


