
"Convergence" between Colleges and Enterprise to Carry Out the Research of Embedded Teaching

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Abstract

With the rapid development of the national economy and industrial transformation and upgrading, technology of high-quality skilled talents demand, the climate of the vocational education put forward higher requirements, through the cooperation between colleges and profound integration promote to raise the level of skill training, is the important way of improving the quality of vocational education school. Combination of yantai nanshan university-enterprise cooperation way diversification, with Department of mechanical engineering as an example to explore university-enterprise cooperation depth fusion in the process of vocational education pattern, through embedded courses, improve the talent training quality.

Keywords

Fusion between Colleges ,Embedded Teaching ,Professional Ability Training.

1. Introduction

The purpose of higher vocational education is to cultivate high-quality skilled personnel to satisfy the needs of the regional economic development, personnel training process must fit actual production enterprise. Guided by the demands of post ability. To realize the goal of cultivating the reasonable position requirements and school even seamless, by deep integration between stable, promote healthy and sustainable development of enterprises, improve the stability of the talent. Between mutual teaching plan, the construction of practice base, on curriculum implementation based on post needs, with real task as the carrier, the enterprise technical personnel exchanges and cooperation with professional teachers, can promote the education of the university teaching reform. From the current situation of the practice of university-enterprise cooperation in China. The exploration of university-enterprise cooperation is still in the primary stage, has not established a truly effective mechanism of university-enterprise cooperation. Most university-enterprise cooperation to stay on the surface form. How to solve the current problems existing in the cooperation between colleges in our country. Put forward the feasible, targeted, the effectiveness of the solution and the suggestion, promote the healthy development of the depth of the cooperation between colleges. Training high skilled talents for the society. Is the major issues of the current vocational colleges are discussed.

2. The fusion between higher vocational colleges and embedded teaching mode and system construction

Fusion between embedded core personnel cultivation, to highlight the professional ability training and to develop "embedded" of the process, to the needs of the enterprises in the process of school education. To post ability demand as the guide, in order to improve the professional skills as the main line, the integration of enterprise hardware resources and the school of software resources, reform of teaching

concept, teaching method and teaching mode, the enterprise post skills requirements, technical innovation, product upgrade "embedded" personnel training model of teaching system, implement professional training and enterprise needs zero distance "convergence".

Yantai nanshan university Department of mechanical engineering through many years of accumulation of teaching, in the shandong peninsula area construction of a number of practical teaching base, including nan shan mold processing center, nanshan thermal power plant, nanshan aluminum and other large and medium-sized enterprises. In recent years, gradually in the department of mechanical manufacturing, mechanical and electrical integration, numerical control technology and other professional teaching process, in-depth development and fusion between embedded teaching. Concrete manifestation in: invite senior engineering and technical personnel to participate in the development of the talent training scheme, construction of curriculum standard, standard industry enterprise's melt of curriculum standard, as the carrier of the integrated teaching mode; Courses in embedded by the enterprise technical staff for students in different academic courses in corresponding, gradually improve students' understanding of enterprise atmosphere, the company advanced technology talents into classrooms, undertake the task of teaching; The selection of the targeted enterprise production workshop construction of practice base, face-to-face improve the ability of integration of enterprise resources, build a line production atmosphere; Training students comprehensive operation ability, lay the foundation for schools, enterprises and cooperative development.

3. "Convergence" between colleges teaching embedded in the Yantai nanshan university Department of mechanical engineering of each professional teaching practice

Technology skilled talents after graduation is mostly engaged in the production line, technology and management, during the period of school of ability training need attaches great importance to the enterprise post skills training group, for the employment between the "zero distance" between the docking. Enterprise participation in the process of teaching, the deeper the better the results of yantai nanshan school of mechanics department through the exploration of talent cultivation system to satisfy the needs of the enterprises have been established: professional education based on the professional education, professional core courses) - embedded course education (corporate culture and post ability education) order training (in-depth study of corporate culture and technology) graduate teaching (field graduation practice and graduation practice).

3.1 Build depth integration of embedded teaching model.

Yantai nanshan university Department of mechanical engineering through many years of accumulation of teaching, the construction of a more stable cooperation enterprises teaching base, built a mature model of embedded in running schools between colleges. Starting from the requirement of enterprise development, tailored for the talent training scheme of enterprise position, between the two sides set theory curriculum system and practice teaching system, school and enterprise cooperation research jobs, industry and enterprise development demand basic data and feedback to the professional team. In recent years, many organizations held senior technical personnel involved in the project of talent fostering discussion meeting, fully listen to the enterprise the ability demand for talent, in collaboration with the talent training scheme revised; Relevant cooperation to construct curriculum system, develop various curriculum standards. According to the demand of the enterprise, increase opened the course embedded in different professional respectively opened "aluminum processing technology" "thermal power plant production technology" "material production technology garden" and so on embedded courses, course content and teaching by enterprise technical personnel to complete, the enterprise human resources management departments participate in the class teaching management. Through the course to cultivate students' awareness of the enterprise and sense of belonging, let the enterprise and the students get to know each other, to combine teaching with post skill requirements closely, enhance the students'

practical ability, and ultimately ensure that students directly into the corporate internship graduation practice teaching, finally to the relevant enterprise employment.

3.2 The construction of the talent training scheme of "convergence" between colleges and curriculum system.

The project of talent fostering and the curriculum system is the core of school teaching platform, the revised training plan, invite related department personnel to participate in cooperative enterprise human resources and technology, puts forward the ability of enterprise needs and job requirements, these requirements can be incorporated into professional course system, at the same time, the requirement of the enterprise into the gates of the corresponding curriculum standard, formed in accordance with the requirements for enterprise training system, for embedded courses, mainly by the enterprise according to the knowledge and skills required to develop curriculum and teaching content, form a theoretical knowledge jobs skills to the integration of teaching system. On this basis, relying on the collective power of enterprise and school, fully research group, post demand distribution, job knowledge, skill requirements, and job demand talents growth quality requirements, development suited to engineering and management knowledge needed for jobs course architecture. At present, the professional to build a "wide base much direction" card "fusion" curriculum system. In junior school year, students on the basis of master professional core courses, according to the different direction to open order class, direction of curriculum and post group. Accept professional knowledge, student campus off-campus training of skills, through teaching, training and the actual embedded teaching, realize the real society and industry development technology skilled talents with high quality.

3.3 Build between each other in harmony with each other the teachers team.

The teacher is the soul of the school, through the enterprise cooperation, establish the classroom teaching is given priority to with their own teachers, practice skill teaching is given priority to with enterprise technician teachers team. Backbone teacher and lecturer at the enterprise bear the major course teaching, professional, professional leaders and enterprise technical director, head of research to develop the talent training scheme, professional construction and development direction. Full-time teachers through companies for personnel training, management, project to participate in social service ability and industry field skills; Enterprise teachers through teaching and researching activities, training of teaching skills, practice, teachers' qualification in colleges and universities teaching skill training such as the job training of the ability to improve classroom teaching level and professional construction.

4. Conclusion

Around the enterprise need to carry out the construction goal of "school culture", we built an embedded teaching mode. Invite companies involved with the talent training, alternating between colleges teaching process, curriculum system embedded "fusion", the practice teaching in combination, make the teaching and production synchronization, synchronization, internships and employment to achieve "zero distance" employment; With the introduction of enterprise core values and business philosophy, professional standards and evaluation standard, training students' awareness and sense of belonging to the enterprise; Classroom teaching and fusion in field projects, mtcsol improve professional knowledge and skills, professional knowledge of timeliness, applied in teaching. Through the teaching practice of recent years, embedded teaching model to promote the construction of the me is a mechanical or related majors and the connotation of development, improve the students' comprehensive quality and practical ability, effectively promote the students' employment work, get the recognition of my department personnel training related enterprises. Profound integration of talent training mode is the only way to realize the seamless docking skill talent and enterprise.

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