Exploring the Training Mechanism of Applied Talents Based on the Concept of Integration of Enterprises with Vocational Schools and Universities 2.0

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Abstract. The background of the wisdom learning workshop (production and education integration 2.0) is the morphological change of higher education institutions in the new era. This change is determined by the needs and technical conditions of economic development. The core characteristics of the wisdom learning workshop are integration, and openness, sharing, flexibility, intelligence, connectivity and diversification, it provides a new way to solve many problems in the current application-oriented undergraduate talent training mechanism. Through a series of strategies, the Wisdom Learning Workshop will enable talents in applied universities to truly integrate their professions with local characteristics, and cultivate talents for industry change and demand, so as to be industry-oriented and local-oriented.

Introduction

With the rapid advancement of science and technology, artificial intelligence, big data, mobile internet, VR/AR, education and schools are on the eve of morphological changes, and need to redefine new forms, new learning, new scenes, new courses in future schools. And new processes. Future schools, smart learning factories, and education investment and financing services are the three major areas for the construction of new forms of future education proposed by the School Planning and Development Center of the Ministry of Education. The Wisdom Learning Factory is also known as the 2.0 version of the integration of production and education.

In December 2017, the General Office of the State Council issued the "Several Opinions on Deepening the Integration of Production and Education", and the integration of enterprises with vocational schools and universities into the basic institutional arrangements for national education reform and human resource development has far-reaching significance. It is in this context that the Smart Learning Factory integrates enterprise resources to integrate industry resources, pays more attention to the improvement of education quality, and achieves educational goals from multiple dimensions such as teachers, students, and professional management. Based on the 2.0 version of the integration of enterprises with vocational schools and universities- the wisdom of learning factory concept, this article will explore the innovation and construction of the application-oriented talent training mechanism from many aspects.

The Significance of the Integration of Enterprises with Vocational Schools and Universities to the Training of Talents in Applied Undergraduate Colleges

Applied undergraduate colleges are an indispensable part of the modern vocational education system. As the demand for applied, innovative and compound talents continues to expand, it is crucial to increase the training of talents in applied undergraduate colleges. The importance of the integrated teaching mode of production and education to the training of talents in applied undergraduate colleges is mainly reflected in the following: Firstly, the implementation of the integration of enterprises with vocational schools and universities can improve the professionalism, post adaptability and practical application ability of students in applied undergraduate colleges; The
implementation of the integration of enterprises with vocational schools and universities can greatly reduce the cycle of applying talents in colleges and universities, so that students can quickly realize the transformation of professional roles. Finally, the implementation of the integration of enterprises with vocational schools and universities can enhance the matching between professional positions and industry needs, thus enabling the cultivation of applied talents is more targeted. In short, the application-oriented undergraduate colleges have a positive role in promoting the cultivation of applied talents with the integration of enterprises with vocational schools and universities as the guiding ideology for talent cultivation and development.

"Educational strategy must always serve the national strategy." At this stage, the professional development of colleges and universities must also keep up with the opportunities of economic transformation, focus on the entire industry chain of information technology, and build a class based on the integration of production and education, new technologies and innovation needs.

The Main Problems in the Talent Training Mechanism of Applied Undergraduate Colleges and Universities

The problems and obstacles encountered in the reform and promotion of the talent training mechanism of applied undergraduate colleges mainly include the following aspects:

Learner Growth Process and Lack of Motivation

At present, there are many shortcomings in China's exam-oriented education: primary and secondary schools take the high scores for higher education as the sole purpose. However, when they go to universities, they often lack a good quantitative evaluation system and elimination mechanism, which leads to the lack of motivation for learners and the recognition of future career scenarios. Defects, the ability of the workplace is difficult to form.

The Orientation of Talent Training and the Demand for Social Talents Derail

Applied undergraduate colleges have a bias in the orientation of running a school. First of all, under the influence of traditional school-running concepts and teaching models, applied-oriented undergraduate colleges have a tendency to seek education. Secondly, they fail to fully integrate and utilize the original advanced teaching. Under the premise of experience, the positioning of talent cultivation is blindly based on the advantages of local industries, which makes it difficult for applied universities to effectively fill the gaps in social industrialization talents.

Teacher Structure and Teaching Skills Restrict the Quality of Talent Training

Applied undergraduate colleges and universities have major deficiencies in the structure and construction of teachers, and the faculty is highly polarized. On the one hand, teachers with higher qualifications have an aging knowledge structure, the use of modern multimedia teaching tools, and the latest research trends and achievements. The mastery is not comprehensive. On the other hand, although the young teachers have relatively new knowledge structures, their practical experience is still insufficient. In addition, from the professional teachers who are employed outside the company, the practical teaching experience is rich, but the theoretical foundation is weak. Therefore, the "double-master dual-energy type" teacher talents are seriously lacking.

The Talent Training Mechanism is not Perfect, Lacking the Support of Innovative Practice Platform

At this stage, the application-oriented undergraduate colleges lack the motivation for the setting of specialties, and the phenomenon of mismatch between professional settings and industrial structure is increasingly prominent. In addition, the flexibility of the curriculum system is poor, and the content of teaching and the demand for positions are not connected. This has caused the talent training mechanism of applied undergraduate colleges to be constantly leaked. In addition, the talent reform innovation reform lacks the support of the practical platform. On the one hand, it is difficult to meet the demand of the industrial park and the training base in quantity. On the other
hand, there are differences in the construction of the practical teaching platform, which leads to serious derailment.

**Strategies for Promoting the Reform of Applied Talents Based on the Concept of Integration of Enterprises with Vocational Schools and Universities 2.0**

The wisdom learning workshop should be born in the new era of school form change trend. Its essence is based on the framework of the disciplined professional cluster development, with smart education as the core, designing new scenarios, processes and mechanisms, with a capacity-based growth streamline. The integration of production and education, the open connection of the spatial structure, the integration of on-site and virtual education, the intelligent mechanism of teaching operation management, and the self-evolving innovation ecology of the core platform of higher education institutions.

The promotion strategy of “Smart Learning Workshop” will be carried out in the following aspects:

**Transforming the Traditional Mode of Integration of Enterprises with Vocational Schools and Universities in School-enterprise Cooperation for the Integration of Enterprises with Vocational Schools and Universities for the “Industry”**

Applied university professional settings are industry and local. Once regional economic development drives the change of industrial structure, new requirements will be put forward for the quantity and specifications of advanced applied and specialized talents. The professional construction of applied universities will also change with the adjustment of regional social industrial structure and the demand for talents. Adjust accordingly.

Applied universities are application-oriented, and their disciplines must be strengthened in connection with the industry. The establishment of any new profession is based on a broad market survey of the labor market and local economic and social development. The professional curriculum system must also reflect the industry, standard and job capability requirements. The future school-enterprise cooperation is to build the profession on the industry.

**Transforming the Latest Industry Technology into Educational Technology to Enhance Students' Interest**

The Wisdom Learning Factory will introduce a series of new technologies such as information technology, VR, game development, big data, and cloud computing into the education of the university through the industry pipeline, and educate the industry technology for the talent cultivation needs and professional development goals of colleges and universities. Adaptable secondary development and transformation, making it more applicable and compatible with the current development of production and education.

**Strengthen Teacher Application Ability and Integrate Teacher Resources**

The company's resident teachers will linearize all the courses related to the engineers, which will, to a certain extent, drive the online curriculum of the school teachers. The teacher will also be provided with a series of supporting tools for teachers to record course videos anytime, anywhere in the internship and field. The wisdom learning factory, "one class double teacher" and integrated reform, not only solves the problems of insufficient teachers and weak application, but also can adapt to the social and economic needs of diverse talents and cultivate more complex talents.

**Student-centered, Online Learning Platform, Offline Experience Center**

Through the construction and practice of a new generation of information technology smart learning workshops, students' learning habits, learning styles and teaching methods will be changed, and the hybrid learning of deep integration on the offline line will be truly realized. Change professional management methods and evaluation methods, conduct comprehensive and multi-
dimensional evaluation and analysis through big data, give more refined management support, and professional management will also be improved faster by linking the whole country.

References


