Research on the Target Orientation and The Structure of Knowledge, Ability and Quality of Applied Talents Training

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Keywords: Applied Talents, College Education and Training, Goal Orientation, Knowledge Ability, Quality Structure.

Abstract: Applied talent training is the general pursuit of colleges and universities at present, so the applied undergraduate colleges and universities are based on the idea of running a school and the orientation of running a school. In this set of models, the basic goal of applied talent training is locked, and the socialized orientation of talent training mode around the structure of talent knowledge, ability and quality has been gradually formed. This paper briefly analyzes the essence and characteristics of applied undergraduate education based on applied talents training, puts forward a clear target orientation of applied talents training, and finally clarifies the knowledge, ability and quality structure of applied talents.

1. Introduction

The cradle of cultivating applied talents is applied undergraduate university, which has a new mode of mass education under the background of modernization of economic construction in our country. For applied talents training is the pursuit of independence and innovation development, independence refers to the independence of education type, and innovation refers to the innovation of education system development and construction. Its training specification, process, method and evaluation standard system are perfect and pluralistic, and it is very beneficial to pursue the dual innovation and optimization of the idea of running a school and the mode of talent training in the process of locating applied undergraduate education talents, especially for the goal orientation, knowledge ability and quality structure optimization construction of college students' talents.

2. The Development Essence and Basic Characteristics of Undergraduate Education under the Background of Target of Applied Talent Training

2.1. The Development Essence of Applied Undergraduate College Education

Applied talent training is the common pursuit of the current school and social development, so the applied undergraduate education system emerged as the times require, they hope to create a new set of applied talent training system, on the basis of deep understanding of the essence and basic characteristics of applied undergraduate education, improve self-talent education goal positioning, structure a complete talent training knowledge, ability and quality structure. Because in the Law of the People's Republic of China on Higher Education, it is clearly pointed out that "it is necessary for college students to grasp the basic theoretical knowledge content, consolidate the knowledge base,
master the necessary basic skills, methods and relevant professional skills in a relatively systematic and in-depth manner, so as to develop their professional ability for the practical work and related research work of this major." Combining with the essence of the development and construction of the university education system, the content and direction of the university education can be classified into the following three categories[1]:

2.2. Teaching Research-based Higher Education System

This kind of college education system emphasizes the application of theory especially in the training of talents, and it also trains the applied talents of theory, such as the theoretical research talents of engineering specialty. The aim of its talent training is to cultivate the bridge talents who can discover the general natural law and transform the natural law into the applied results. For example, in chemistry, the cultivation of chemical knowledge can be converted into environmental science knowledge content of talent, in mathematics to be able to transform mathematical theory into operational research talent. In other words, the education system built by the higher education majors in these colleges and universities is an interdisciplinary "elite" education system, which trains high-level theoretical and practical comprehensive talents who can see clearly the objective world, and they are professional engineers who can transform the objective world.

2.3. Higher Vocational College Education System

Higher vocational college education system is very common in China, they pay special attention to the cultivation of corresponding talents, emphasizing the construction of talent skills system, hoping to train all-skilled talents. In UNESCO's International Classification of Education, it is clearly pointed out that higher education standards should be included in the higher education classification, which classifies the content of vocational education based on specific occupation and specific teaching objectives, and trains specialized talents with practical skills and knowledge, who have the various abilities and qualifications needed by enterprises in the labor market. Therefore, to sum up, the biggest wood comparison for the development of higher vocational higher education system is to train applied talents, highlight the application and professional practice of talent training, inculcate strong practical operation skills for students, and improve their problem-solving ability.

3. General Undergraduate Education System

Finally, the general undergraduate college education system, combined with its own development characteristics, it trains intermediate talents between the above two types of higher education system, which are mainly engaged in the first-line technical application and process guidance, supervision, management and control of the process, and so on. In other words, the people they train are precisely positioned for professional engineers.

The types of applied talents cultivated in different colleges and universities are also different. Combining with these categories, we can further study the essence and basic characteristics of applied undergraduate education development.

Figure 2 Grouped teaching
Basic characteristics of applied undergraduate education

The basic characteristics of the development of applied undergraduate education should mainly reflect the application content, combined with the development process of engineering applied undergraduate education specific clear development objectives, the following three basic characteristics covered in its development.

First, the training of production, engineering, management, services and other aspects of the technical capacity of senior engineering application professionals. This kind of talents can contribute to the local economic and social development and technology promotion work, can enhance the scientific and technological content of enterprises, increase the market share of products, and is the exclusive type of talents who serve the development of enterprises in an all-round way.

Second, in the process of education concept and teaching, combining students'learning ability, employment ability, transfer and entrepreneurial ability to train specialized professional talents, while ensuring that the trained talents can be smoothly imported into the social enterprise market, can play an important role in value.

Third, in order to adapt to the local and industry economic development construction customization goal, construct the student talent training system around the main line of engineering application, construct the ability, the quality structure mechanism, optimize the talent training plan. The students trained in this environment have a solid professional basic ability, their application is wider and wider, the technical application ability will be stronger, generally speaking, have high quality professional ability.

Combining with these three basic characteristics, colleges and universities have the target orientation of applied talent training, the precondition and capital of talent knowledge, ability and quality structure component[2].

4. Target Orientation of Talent Training in Undergraduate Education System Under the Background of Applied Talent Training

Applied higher education institutions need to position their own talent training goals at a high level, combine the existing resources of the school and the types of talent to train students according to their aptitude to meet the special needs of professional talent training, to send a higher quality, with better characteristics of professional talent for the society. In this process, we should ensure the international division of labor and competition optimization under the situation of economic globalization, and constantly improve the target orientation of applied talent training. Specifically, the following are included:

It is necessary to train modern professionals oriented to the science and technology society in the 21st century, ensure the all-round development of talents in various aspects of moral, intellectual, physical and labor, pay attention to the effective cultivation of their innovative quality and development ability, ensure that they have certain basic professional knowledge, professional content application methods and basic skills, and have a good ability to participate in design and manufacturing on the line of industry production.

Colleges and universities need to reflect their own forward-looking in the field of talent training, more combined with scientific and technological progress and social development to cultivate special talents with corresponding qualities, emphasizing the mechanical and electrical combination of the background of engineering applied talent training mechanism. Optimizing Design Students'Design and Manufacturing, Technical Application Transformation including Managing Sales Professional Technical Ability[3].
5. Construction of Knowledge, Ability and Quality in Undergraduate Education System under the Target of Applied Talent Training

Under the background of the goal of training applied talents, we should pay attention to the process of constructing the knowledge, ability and quality structure of students'talents, emphasize to build the integrated development system of professional theory and practice around professional research, to cultivate all-round talents, to build the knowledge, ability and quality structure system of talents from the basic theory, technical method, basic skill, practical application and so on, pay special attention to the practical training process of students'knowledge and ability, at the same time emphasize the pursuit of comprehensiveness in the way of methods, and the practical thinking of combining with the practical problems of professional projects.

Based on the analysis of the mechanical design and manufacture and automation specialty, the professional applied talents they need to be trained need to pursue one main line, two pillars, three modules and four cornerstones in the construction of knowledge structure. Specifically, the main line of education development is set up around the theoretical and practical knowledge of engineering application specialty.[4].

6. Conclusion

To sum up, at present, the applied university education system based on applied talents training on the basis of defining the goal of personnel training education also hopes to consolidate the construction of knowledge structure platform, cooperate with many modules to build and perfect the education system, ensure the responsibility for the cultivation of students'professional ability and quality, be responsible for the social enterprises, and transport high-level and high-quality professional complex talents. In the future, applied talent training colleges and universities will become the mainstream of social education development, to achieve more cooperation with enterprises, in the process of talent training model research and practical application in the pursuit of excellence.

Acknowledgements


References

