

Study on the Cultivation of Craftsman Spirit of Higher Vocational Students

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Abstract: Through the analysis of this research talent for advanced manufacturing characteristics, summarized and concluded that the higher vocational school of mechanical and electronic class students should have the connotation of the "spirit", including the qualities and skills should be the requirements, put forward higher vocational mechanical and electrical kind of strategy in the cultivation of students "spirit", provide certain theoretical basis for talents training in higher vocational school, thinking and reference, It will provide reference for further research of future scholars.

Keywords Strong industry, Craftsmanship spirit, Cultivating countermeasures

INTRODUCTION

The shortage of skilled personnel is a pressing challenge that countries across the globe face in their efforts to advance the manufacturing sector. In China, this issue has become particularly urgent as the nation undergoes a pivotal phase of industrial transformation and modernization, aiming to shift from traditional growth drivers to newer, innovation-led ones. The success of this transformation hinges upon the high-quality development of the real economy, which, in turn, relies on a robust workforce equipped with specialized skills.

In this context, higher vocational education institutions hold a foundational position. They are tasked with the critical responsibility of nurturing a new generation of skilled professionals who can contribute to the nation's industrial upgrading. Vocational colleges are not only centers of technical learning but also key players in fostering a "craftsman spirit"—a dedication to excellence, precision, and continuous improvement that is indispensable for China's evolving industries.

Given China's unique national conditions and the current demands of its labor market, it is essential to develop a strategic approach to cultivating this craftsman spirit among vocational students. This involves rethinking educational frameworks, enhancing hands-on training, and creating pathways that integrate technical skills with the values of dedication, patience, and innovation. By focusing on these aspects, China can better align its vocational education system with the realities of its industrial landscape, ensuring that the next generation of workers is not only technically proficient but also deeply committed to the ethos of craftsmanship.

This study on the cultivation strategies of skilled

talents with a focus on the craftsman spirit is therefore crucial. It will explore innovative pathways to cultivate vocational education that meets the current demands of the nation and ensures that the new generation of workers can contribute to China's long-term economic growth and competitiveness.

THE NEED FOR RESEARCH

This topic based on the comprehensive create a new situation "industrial binzhou", adhere to the "strong industrial xing city, industrial city", create under the background of world advanced manufacturing base, combined with the development of advanced manufacturing industry and the demand for talent and "spirit" to foster the research status at home and abroad, analysis and research of higher vocational students in mechanical or electrical "spirit" of the specific path and countermeasures, Mainly based on the following three aspects:

The needs of enterprise transformation and upgrading

Binzhou relies on the development of high-end aluminum, high-end chemical industry, efficient ecological textile, food processing and animal husbandry and aquatic products with advantages of five hundred billion yuan, to create an industrial innovation highland and industrial cluster highland, and continuously inject "Binzhou strength" for the transformation of old and new driving forces in Shandong. For enterprises to develop, technical talents are the key, and high-skilled talents have become an important factor in binzhou's economic development and enterprise transformation and upgrading. As a higher vocational school serving local economy, it is the duty to train highly skilled talents for enterprises.

The need for school upgrading

Upgrading development is of great significance to explore the mode of running school, personnel training, cooperation between government, school and enterprise, to train innovative, complex and developmental high-level technical talents, to speed up the development of vocational education and to perfect the modern vocational education system in accordance with the state.

Student employment needs

The main training target of higher vocational mechanical and electrical specialty is senior skilled personnel. Students are eager to gain a higher level of skill by obtaining a vocational qualification certificate for senior engineer or technician, so that they can get a higher salary when they go to work in the enterprise.

THE MAIN PROBLEMS EXISTING IN THE CULTIVATION OF CRAFTSMAN SPIRIT IN HIGHER VOCATIONAL COLLEGES

The concept of craftsman spirit has not really penetrated into the hearts of teachers and students

In the course of vocational education in Our country, little attention is paid to the cultivation of professional spirit and the construction of social culture of excellence. Spirit cultivation is different from skill teaching. In China's existing vocational spirit education model, there is no mature training and assessment system, nor standardized psychological tests or certificates to prove the level of professional spirit, so it is difficult to attract the attention of all social parties.

Lack of craftsman spirit courses in teaching and training programs

Mechanical and electrical majors in higher vocational colleges do not offer basic courses specifically for professionalism or craftsman spirit, and students do not have a comprehensive understanding of the theory of craftsman spirit. The general courses of craftsman spirit have not been carried out, and there are few courses about professionalism.

Lack of concrete and feasible course teaching model

When studying the cultivation path of "craftsman spirit", domestic scholars have basically mentioned cultivating students' "craftsman spirit" in the course teaching, but they are basically limited to imbuing students with their thoughts in ideological and political courses, and have not put forward specific and feasible teaching mode in the actual professional course teaching.

Lack of good "craftsman" teachers

Although many appear to be "double type" teachers, but firms have sufficient experience and qualified for the task of teaching the "double division type" teacher ratio is low, and the "double division type" teachers does not necessarily have to foster students' ability of "spirit", structure and quality of teachers, therefore, cannot meet the needs of cultivating "spirit".

School-enterprise cooperation is still at a shallow level

There are still many problems in the cooperation between higher vocational colleges and enterprises. It is mainly reflected in the weak willingness of enterprises to actively participate in higher vocational education and support the development of vocational education, and the phenomenon of "hot schools and cold enterprises" generally exists.

Lack of relevant policy support

There is no perfect system for cultivating craftsman in China, and the cultivation of "craftsman spirit" among students lacks sufficient policy support, which will restrict the cultivation of "craftsman spirit" among students.

COUNTERMEASURES FOR CULTIVATING "CRAFTSMAN SPIRIT" OF ELECTROMECHANICAL STUDENTS IN HIGHER VOCATIONAL COLLEGES

Based on binzhou's five hundred billion industrial clusters -- high-end aluminum, fine chemicals, home textiles, food processing, looking across the province, professional docking industry, from the needs of enterprises to cultivate

In recent years, China has optimized and upgraded its industrial structure and promoted the transformation from "Made in China" to "smart Made in China". The most important part of this transformation is to improve the quality of personnel training and cultivate high-quality professional and technical personnel. Combining with the talent demand of enterprises and posts, it is the objective requirement of the integration of industry and education of vocational education and the cooperation between schools and enterprises to guide the talent demand of society and enterprises, and it is also the direction of running higher vocational colleges. In the process of education in colleges and universities, we should establish the professional ethics cultivation concept of combining school, enterprise and post, strengthen the construction of professional ethics, and cultivate the craftsman spirit of students.

Modern apprenticeship is a modern talent training mode based on the deep cooperation between

schools and enterprises, with specialty as the link, aiming at cultivating craftsman talents, and teachers and masters jointly teaching and cultivating students' skills. Modern apprenticeship can transform students from a single identity to multiple identities of apprentices or workers. Learning places are not limited to schools, but more in-depth into the production line of factories, so that the traditional focus on theory is shifted to practice, and the requirements for students are also shifted to social demand-oriented. More conducive to promote the industry and enterprises to participate in the whole process of vocational education personnel training, is conducive to the training of high-quality professional and technical personnel with craftsman spirit, to achieve the precise docking of talents and society.

Improve the cognition of "craftsman spirit" and internalize it into students' self-needs

Strengthen the cultivation of service and dedication consciousness. The cultivation of the sense of dedication can make full use of classroom teaching, teaching the deeds of "great power craftsmen", carrying out exemplary guidance, so that higher vocational students can take them as models to learn from and imitate. Attach importance to the cultivation of responsibility consciousness. Higher vocational colleges encourage students to take the initiative to serve as student cadres to realize the cultivation of their sense of responsibility. Pay attention to the professional dedication and excellence consciousness of vocational students, fully understand their attitude towards life, study and work, and what kind of ideal and ambition they have.

The connotation of "craftsman spirit" points out that the training content of vocational college students' professional ethics mainly includes honesty and trustworthiness, the spirit of teacher's ethics, and the good professional ethics can be formed through self-discipline construction.

Higher vocational students must take the development of the country and the nation as their own responsibility and practice the socialist core values. "Craftsman spirit" needs to be guided by ideals and beliefs in order to go further and better.

Make full use of ideological and political education classes. Ideological and political theory course is a systematic course for students to learn and understand "craftsman spirit", and it is an important link to improve students' comprehensive quality. Carry out in-depth and meticulous mental health education. It is the necessary psychological construction education to realize "craftsman spirit", which is helpful for higher vocational students to have good character quality, enhance psychological adaptability and develop good behavior quality. Strengthen and improve ideological and political education organizations in higher vocational colleges. It needs the joint efforts of all departments to

cultivate the cognition of "craftsman spirit" of higher vocational college students. As one of the main teams of "craftsman spirit" cultivation, the strengthening and improvement of ideological and political education organization is conducive to the implementation and implementation of "craftsman spirit" cultivation.

Optimize the environment inside and outside the school, cultivate the "craftsman spirit" sentiment of higher vocational students

Vigorously build campus culture. Through the campus culture to strengthen the cultivation of "craftsman spirit", insubtly standardize the behavior of higher vocational students, so as to break through themselves, towards a higher spiritual realm. Organize campus cultural activities carefully. Pay attention to let the activity and the content of the "spirit", and "spirit" of the spirit kernel into the campus activities, finally realizes to the spiritual influence on students' moral sentiment, and blend in all aspects of life, students complete the sublimation of moral emotion, and from the known to the letter to the line, "spirit" as his life creed, to practice, Benedict.

Use the network, carry out rich and colorful online education activities. Through wechat, Weibo, QQ and other platforms, the training of "craftsman spirit" for vocational college students is expanded, education and practice approaches, and more effectively guide vocational college students. Grasp the main position of the network, build democratic communication channels. The website of the school sets up a column of "craftsman spirit", so that the higher vocational students can understand the content of "craftsman spirit", and establish an effective channel for the dissemination of "craftsman spirit". In this way, the democratic communication in schools is more effective and open, and the participation consciousness of vocational students is improved. Standardize the campus network order, strengthen the responsibility consciousness of higher vocational students. Higher vocational colleges can issue relevant code of conduct to restrict and guide the network activities of higher vocational students, promote their self-conscious ability of behavior, guide students to improve self-control, enhance their self-discipline, consciously regulate the order of the school Internet, and cultivate the "craftsman spirit".

Good social environment plays a powerful role in promoting the formation of "craftsman spirit" of higher vocational students. It can be said that the function of perfecting social mechanism of punishing evil and promoting good lies not only in promoting good, but also in punishing evil. We will improve policy guidance and raise the social status of artisans. Policies play a guiding role, and rational use of policies can provide policy support and

institutional guarantee for the improvement of the social status of artisans.

Strengthen the construction of teaching staff, guarantee the implementation of "craftsman spirit" in vocational college students

In the process of training teachers in higher vocational colleges, only teachers with good practical ability can better play the demonstration role of "craftsman spirit" and improve students' practical level. Improve teachers' moral accomplishment, improve teachers' moral consciousness and sense of responsibility, pay attention to their own words and deeds, teach students to learn and conduct themselves, and learn to guide students.

We will strengthen the construction of double-qualified teachers. The students trained in higher vocational colleges should have skills and knowledge, which requires that the teachers, especially the teachers of specialized courses, not only have enough professional theoretical knowledge and technical skills, but also have rich practical ability and experience. Pay attention to teacher training, throughout the concept of lifelong education. Teachers in higher vocational colleges should establish the belief of lifelong education, the school should pay attention to the training of teachers, teachers should continue to learn and improve professional knowledge, improve their own teaching ability.

Improve the teacher training system. Higher vocational colleges should constantly improve the standard of professional title, seek truth from facts, emancipate the mind, and do not let the standard of professional title become an obstacle to the development of teachers. We should strengthen and perfect the evaluation standard of teachers, and evaluate the teaching level of teachers from many families, various aspects and multi-level levels. Formulate the trade access system for higher vocational teachers. The system has a variety of guiding standards, mainly including instruction, rule guidance, encouragement and mobilization, procedural fairness and so on. We should gradually improve the professional concept and professional identity of teachers in higher vocational colleges, and cultivate a group of highly professional and competent teachers in vocational colleges.

To promote "craftsman spirit" to be transformed into higher vocational students' behavior through practical activities

Higher vocational students should constantly explore and innovate in the process of practice, gradually realize the combination of education and practice, and promote the common development of ability and quality.

The parameter setting is the default of the system, and the Advocate student participation in school

management activities. Higher vocational colleges should advocate higher vocational students to participate in school management and improve their sense of responsibility and moral quality. We will carry out in-depth social investigations. Organize students to conduct field investigations on hot social issues and focal points, understand the real situation of things through field investigations, put forward opinions and suggestions to solve the problems and form research results. Extensive social services will be provided. Schools can create conditions to encourage higher vocational students to take part in public welfare undertakings and cultivate their sense of responsibility and dedication to the society.

Strengthen university-enterprise cooperation. "School-enterprise cooperation" is a characteristic talent training mode in higher vocational colleges. This mode is based on objective needs and is an effective way to train application-oriented talents needed by economic construction. This is a win-win model, not only for the society to transport talents, but also for the school to provide a place for education, training students' hands-on ability. Carry out the practice and training of higher vocational students. Higher vocational colleges should strengthen the contact and communication with enterprises, through the formulation of common system, the cultivation of "craftsman spirit" throughout the process of practice.

In classroom teaching, emphasis is placed on practice teaching. In the classroom teaching, we should pay attention to the training of students' special and comprehensive ability, so as to improve students' professional ability more quickly. Practice courses and training base organic combination, actively participate in practice, so that students cognitive application in practice, in practice, continuous and repeated exercise, so as to test their ability to use, and on this basis for the ability to sublimate. School management, training planning and system construction. Higher vocational colleges should make a careful inventory of the resources available to the school and make plans and plans for the cultivation of vocational ability.

Binzhou municipal government attaches great importance to the cultivation of craftsman spirit, allocates a certain proportion of places to colleges and universities in the evaluation of "Binzhou craftsman" every year, and establishes a echelon of craftsman training from the system and mechanism to provide highly skilled talents for regional development.

CONCLUSION

According to the research, compared with ordinary undergraduate students, higher vocational mechanical and electrical students have certain knowledge reserve, their academic level is slightly inferior to that of ordinary undergraduate students,

but they have relative advantages in skill development, and have more potential in craftsman cultivation compared with medical and accounting majors. Therefore, in terms of policy formulation, it is suggested to help government education departments improve the policy system of modern apprenticeship, coordinate the relationship between schools and enterprises as well as other institutions, and establish an innovative training mode that meets the needs of local enterprises for high-skilled craftsmen. In the aspect of enterprises, it is helpful to promote enterprises to fully understand the thematic role of vocational schools in training craftsman talents, so that vocational schools can play their due role. In terms of school running, it will help to promote the school to further enhance the awareness of school-enterprise cooperation, build a distinctive training mode for highly skilled craftsmen, further improve the quality of school running, and comprehensively improve the training level of highly skilled talents.

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