

Training Path and Strategy of Craftsman Spirit in Vocational Colleges

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[**Abstract**] With the rapid development of China's economy, vocational college, as an important part of higher vocational education, has become an important place to cultivate all kinds of craftsman talents. However, there are still many problems in the cultivation of craftsman spirit in vocational colleges, such as the low level of teachers, unreasonable curriculum and so on. Therefore, this paper makes an in-depth study on the cultivation path and strategy of craftsman spirit in vocational colleges, puts forward the cultivation path of craftsman spirit based on quality education, focusing on practical education, taking the cultivation of innovative ability as the core, and supported by teamwork. It also puts forward the corresponding specific strategies and measures, in order to provide reference for the cultivation of craftsman spirit in vocational colleges.

[**Key words**] vocational colleges; craftsman spirit; training path; strategy

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Craftsman spirit is an important part of China's traditional culture. It contains a high level of professionalism and skills, and is an important force to promote the high-quality development of China's manufacturing industry. However, with the rapid development of social economy and the continuous innovation of technology, the craftsman spirit has been gradually diluted or even disappears in some industries and fields. In order to revive the craftsman spirit and improve the competitiveness and innovative ability of China's manufacturing industry, vocational colleges should strengthen the cultivation of craftsman spirit and cultivate more craftsman talents with high-level professional quality and skills.

1 The significance of cultivating craftsman spirit in vocational colleges

With the deepening of economic globalization and the rapid development of information technology, the demand for professional skills in various industries and fields is increasing. As an important part of vocational education, vocational colleges should pay more attention to the cultivation of students' vocational skills and practical experience, which requires the cultivation of craftsman spirit, improvement of students' professional quality and practical ability, and more high-quality professionals for the development and construction of society.

1.1 Promote the improvement of professional quality

Students in vocational colleges need to have higher professional quality because of their professional attributes. Craftsman spirit refers to the pursuit and love for their own professional field, and the continuous pursuit and perfection of professional skills. Cultivating craftsman spirit can promote students' in-depth understanding and love for their major, stimulate their enthusiasm and initiative in learning, and improve their professional quality and skill level. Through the cultivation of craftsman spirit, students in vocational colleges can better meet the needs of career development and better serve the society.

1.2 Improve practical ability and innovation ability

The core of craftsman spirit is practice and innovation. Vocational college students need to have practical and innovative ability in order to better adapt to the development and changes of society. Cultivating craftsman spirit can

stimulate students' practical and innovative ability, and enable students to continuously innovate and improve their ability in the professional field. At the same time, the craftsman spirit also requires students to have passion and love for their professional fields, which can promote them to be more serious and responsible in practice and improve their practical and innovative ability.

1.3 Improve professional ethics and professionalism

Craftsman spirit also requires students to have noble professional ethics and professionalism. In vocational education, students should not only learn professional skills and knowledge, but also cultivate professional ethics and quality, including professional ethics, norms and so on. Through the cultivation of craftsman spirit, students can pay more attention to the norms and rules in their professional field, enhance their professional ethics, and improve their professional quality. As a result, the needs of professional development can be better met, and more high-quality professionals can be provided for the society.

1.4 Promote the transformation of talent training mode

With the economic development and social change, the talent training mode of vocational education is also constantly transforming. Traditional vocational education pays attention to theoretical education and skill training, but now vocational education pays more and more attention to students' practical and innovative ability, and professional quality and ethics. The cultivation of craftsman spirit is in line with the needs of this transformation trend. Cultivating craftsman spirit can make students pay more attention to practice and innovation, and professional quality and ethics, so that they can better adapt to the needs of professional development, and improve their professional competitiveness.

1.5 Promote social and economic development

Professional talents cultivated by vocational colleges are the backbone of social and economic development. The cultivation of craftsman spirit can improve the quality and level of vocational education, provide more high-quality professionals for the society, and promote the development of social economy. The spirit of keeping improving and innovating required by craftsman spirit is in line with the needs of modern economic development, which can promote the technological innovation and economic efficiency of enterprises, and improve social productivity and competitiveness.

In short, the cultivation of craftsman spirit in vocational colleges is of great significance to the improvement of students' professional quality and skills, practical and innovative ability, and professional ethics and quality, the transformation of talent training mode and the development of social economy. In vocational college education, we should pay attention to the cultivation of craftsman spirit, improve students' professional quality and competitiveness, and provide more high-quality professionals for the society.

2 The present situation of the cultivation of craftsman spirit in vocational colleges

With the attention and development of vocational education, the cultivation of craftsman spirit in vocational colleges has gradually become a hot topic. However, the current situation of the cultivation of craftsman spirit in vocational colleges is not satisfactory, and there are some problems and challenges.

2.1 Imbalance between theory and practice

The cultivation of craftsman spirit needs the combination of theory and practice, but at present, the imbalance between theory and practice is more serious in the cultivation of craftsman spirit in vocational colleges. Some vocational colleges pay attention to the teaching of theoretical knowledge, while the training of practical operation is relatively weak. This may cause students to encounter difficulties or mistakes in practical work. Therefore, vocational colleges should strengthen practical teaching and let students learn and master skills in practical operation, so as to truly cultivate professional talents with craftsmanship spirit.

2.2 Lack of craftsman culture

Craftsman spirit is not only the accumulation of technical skills, but also the inheritance of a culture.

However, the lack of craftsman culture in vocational colleges is obvious. Students' literacy in craftsman culture is relatively low, and their understanding of it is not deep enough. Vocational colleges should strengthen the education of craftsman culture, let students understand its historical origin and spiritual connotation, improve students' sense of identity and pride of it, so as to better cultivate professional talents with craftsman spirit.

2.3 Lack of teachers

The teaching staff of vocational colleges is very important for the cultivation of craftsman spirit, but at present, the problem of insufficient teaching staff in vocational colleges is more prominent. The level of teachers in some vocational colleges is low, and they lack the education and practical experience of craftsman spirit, so they cannot really pass on the craftsman spirit to students. Therefore, vocational colleges should focus on improving the quality and ability of teachers, cultivate a team of teachers with craftsman spirit, and provide better protection for the cultivation of students' craftsman spirit.

2.4 Deficient evaluation system

The cultivation of craftsman spirit in vocational colleges needs the support of the evaluation system, which is deficient and lacks scientificity and objectivity currently. Some vocational colleges still use traditional method of examination and score evaluation, which cannot comprehensively evaluate the craftsman spirit of students. Therefore, vocational colleges should establish a scientific evaluation system, including a variety of evaluation methods, such as assessment of practical skills and craftsman spirit, to comprehensively and objectively evaluate the craftsman spirit of students.

2.5 Lack of social recognition

Although craftsman spirit has been affirmed and valued in national policies, there still lack social recognition. Many people lack understanding and cognition of craftsman spirit, and recognition of vocational education and vocational colleges. This also brings some pressure and challenges to the cultivation of craftsman spirit in vocational colleges. Therefore, vocational colleges should improve the social recognition of craftsman spirit through a variety of ways, such as holding exhibitions and carrying out popular science education, so that the society can better understand and recognize craftsman spirit and increase the recognition of vocational education and vocational colleges.

In short, there are some problems and challenges in the cultivation of craftsman spirit in vocational colleges, which need the joint efforts of vocational colleges and relevant departments. Through the efforts of strengthening practical teaching, craftsman culture education, and quality of teachers, establishing a scientific evaluation system, and improving the social recognition of craftsman spirit, we can better cultivate professional talents with craftsman spirit and make contributions to China's economic and social development.

3 Cultivation path of craftsman spirit in vocational colleges

3.1 Based on quality education

Quality education is the basis of improving students' comprehensive quality in an all-round way, and the cornerstone of cultivating craftsman spirit. Vocational colleges should strengthen the theoretical research of quality education, establish a scientific quality education system, and clarify the objectives and tasks of quality education. In the specific implementation, we should pay attention to the cultivation of students' ideological and moral quality, cultural quality, psychological quality and physical quality, so that they can have good professional ethics, cultural quality, psychological quality and healthy physique, laying a solid foundation for the cultivation of craftsman spirit.

3.2 Focus on practical education

Practical education is the key link to cultivate craftsman spirit. Vocational colleges should strengthen the management and organization of practical education and implement various systems of practical education. At the same time, we should also pay attention to the quality and effect of practical education, encourage students to

participate in various practical activities and competitions, improve their practical and innovative ability, and cultivate craftsman talents. In addition, vocational colleges should also establish and improve practical teaching resources and platforms, build a number of practice bases with industry characteristics and advantages, and provide places and opportunities for students' practical education.

3.3 Take the cultivation of innovative ability as the core

Innovative ability is the core and soul of craftsman spirit. Vocational colleges should strengthen the theoretical research and practical exploration of innovative education, establish an innovative education system, and cultivate students' innovative thinking and ability. Specifically, vocational colleges can improve students' innovation level and practical ability by carrying out various innovative education activities, such as scientific and technological innovation projects, entrepreneurship competitions, etc. In addition, vocational colleges should also encourage students to participate in scientific and technological innovation activities and projects, strengthen industry-university-research cooperation, and cultivate students' innovative spirit and ability.

3.4 Supported by teamwork

Teamwork is a prerequisite for craftsmanship. Vocational colleges should pay attention to teamwork education, cultivate students' teamwork consciousness and ability. Specifically, vocational colleges can improve students' abilities in teamwork, communication and coordination by carrying out various teamwork projects and activities, such as group discussion and collective projects. At the same time, vocational colleges should also establish and improve the mode and mechanism for teamwork teaching, create a teamwork platform with industry characteristics and advantages, and provide support and guarantee for students' teamwork.

4 Training strategies of craftsman spirit in vocational colleges

4.1 Improve the quality of teachers

Teachers are the important carrier and subject of craftsman spirit training in vocational colleges. Vocational colleges should strengthen the improvement of teachers' professional quality and teaching ability, and provide students with high-quality education and the guidance of craftsman spirit. Specifically, vocational colleges can improve teachers' teaching ability and professional quality through regular teacher training and learning, strengthen their understanding of craftsman spirit, and improve their awareness and ability to cultivate craftsman spirit. In addition, vocational colleges should also establish and improve the assessment and evaluation mechanism for teachers, encourage excellent teachers, promote the construction of teacher team, and improve teachers' ability and level of cultivating craftsman spirit.

4.2 Strengthen industry-university-research cooperation

Industry-university-research cooperation is an important means and way for vocational colleges to cultivate craftsman spirit. Vocational colleges should actively carry out industry-university-research cooperation, strengthen the contact and cooperation with enterprises and scientific research institutions, and provide students with a broader practice platform and richer learning resources. Specifically, vocational colleges can cooperate with enterprises to carry out various practical projects, encourage students to participate in enterprise practice, and deepen students' understanding of the industry. At the same time, vocational colleges should also cooperate with scientific research institutions to promote the close integration of scientific research work and industry development, and the improvement of scientific research level and students' innovative ability.

4.3 Create industry characteristics and advantages

Vocational colleges should pay attention to the cultivation of industry characteristics and advantages, and create an education brand with industry characteristics and advantages. Specifically, vocational colleges can pay attention to the cultivation of industry characteristics and advantages through curriculum, teaching methods, practical activities and other aspects, provide students with education and training that meet the needs and development trends of the industry, and improve students' employment competitiveness and professional quality. At the same time, vocational colleges should also strengthen the cooperation with industry associations and enterprises,

improve their industry influence and awareness, and provide more support and help for students' employment and career development.

4.4 Strengthen students' self-management and development

Vocational colleges should pay attention to students' self-management and development, and cultivate their abilities in self-awareness and self-management. Specifically, vocational colleges can guide students to actively participate in learning and practice, improve their abilities in self-awareness and self-management, and cultivate their professional quality and craftsmanship spirit through self-evaluation and guidance, student associations and organizational management, and their career planning and development.

4.5 Promote quality education and lifelong learning

Vocational colleges should promote quality education and lifelong learning, provide students with all-round education and training, and help students comprehensively improve their comprehensive quality and professional ability. Specifically, vocational colleges can promote students' all-round development and growth, improve their professional quality and craftsman spirit, and lay a solid foundation for their career development by setting up quality education courses, carrying out lifelong learning activities, and promoting the credit system.

4.6 Strengthen international cooperation and exchanges

Vocational colleges should strengthen international cooperation and exchange, introduce and learn from advanced educational concepts and experience abroad, and promote the development of schools and the career development of students. Specifically, vocational colleges can strengthen cooperation and exchanges with international educational institutions and enterprises by carrying out international courses, enrolling international students, encouraging students to participate in international competitions, etc., so as to improve students' international vision and professional competitiveness, and promote the internationalization of themselves.

4.7 Strengthen the cultivation of students' innovative ability

Vocational colleges should pay attention to the cultivation of students' innovative ability and improve their innovative and practical ability. Specifically, vocational colleges can cultivate students' awareness of innovative and practical ability, improve their professional quality and craftsman spirit, and provide support for their career development, entrepreneurship and innovation by carrying out scientific and technological innovation competitions, entrepreneurial practice activities, and practical teaching.

To sum up, the cultivation path and strategy of craftsman spirit in vocational colleges are multifaceted. It is necessary to gradually build a perfect cultivation system of craftsman spirit from the aspects of teachers, industry-university-research cooperation, industry characteristics and advantages, students' self-management and development, quality education and lifelong learning, international cooperation and exchange, and the cultivation of students' innovative ability, so as to make positive contributions to students' career development and social development.

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On the Innovative Application of Modern Educational Technology in University Teaching Management

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[**Abstract**] With the development and application of information technology, modern educational technology has been widely applied and promoted in the teaching management of colleges and universities. As a new educational means, modern educational technology can not only improve the teaching effect, but also strengthen the teaching management and improve the teaching quality. This paper will focus on the innovative application of modern educational technology in university teaching management, in order to provide some new ideas and methods of university teaching management.

[**Key words**] educational technology; teaching management; application

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1 Introduction

With the continuous development of information technology, modern educational technology has become an indispensable part in the field of education. Modern educational technology, including computer technology, network technology, multimedia technology, and artificial intelligence technology, is widely used in teaching and management. In the teaching management of colleges and universities, the application of modern educational technology is also more and more common. Applications of modern educational technology in university teaching management can include educational administration management system, online learning platform, teaching resource database, data analysis and decision support system, etc. These systems can help teachers and administrators manage the information of students, courses, examinations, teaching resources, etc., improve the efficiency and quality of teaching management, and provide decision support for schools. At the same time, the current teaching management in colleges and universities also faces some challenges, such as low efficiency of teaching management, uneven distribution of teaching resources, deficient student evaluation and so on. Therefore, the application of modern educational technology in university teaching management can not only improve the quality and efficiency of teaching, but also optimize the allocation of teaching resources, promote information sharing and knowledge innovation, and improve the level of decision-making and management.

The application of modern educational technology in university teaching management is very necessary, which can improve the quality and efficiency of teaching, promote information sharing and knowledge innovation, improve the level of decision-making and management, and promote the modernization of university teaching management. First, improve the efficiency of teaching management. Modern educational technology can help teachers and administrators manage the information of students, courses, examinations, etc., improve the efficiency of teaching management, reduce the working time and cost. Second, optimize the allocation of teaching resources. Modern educational technology can provide rich teaching resources, promote the sharing of teaching resources, optimize the distribution of teaching resources, and improve the quality and efficiency of teaching. Third, promote information sharing and knowledge innovation. Modern educational technology can provide online learning platform and teaching resource database, promote information sharing and knowledge innovation between students and teachers,