

Exploration and Construction of Higher Vocational Automotive Testing and Maintenance Technology Specialty

Yu Zhang, Qiujuan Huang

Harbin Vocational & Technical College, Harbin, Heilongjiang, 150081

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Abstract: With the deepening of new curriculum reform in our country, the teaching mode and teaching philosophy have been innovated and transformed. While improving the quality of classroom teaching, it is good for cultivating students' comprehensive qualities and meeting the needs of the educational age. This paper analyzes the exploration and practice of the construction of automobile detection and repair technology specialty in higher vocational colleges in order to provide effective theoretical reference for improving the quality of professional education in vocational colleges today.

1. Introduction

Automobiles are more commonly used means of transportation. With the continuous improvement of social life, the per capita amount of cars gradually increases, and the demand for specialized technical personnel for automobile testing and maintenance is increasing day by day. As the main education place for cultivating auto professionals, vocational colleges should meet the trend of development of the times and continue to enrich the teaching modes and teaching methods under the guidance of the innovative spirit of the courses so as to make the professional education more scientific and in line with the development of the times. And maintenance of new technical personnel requirements. Based on this, in order to get better development of China's automobile industry, enhance the performance of vehicle maintenance services, explore the construction of higher vocational vehicle maintenance professional exploration and practice of development direction, the practice of professional construction strategy is particularly important.

2. To explore vocational automobile maintenance and repair technology specialty exploration and practice of development

Higher vocational automobile testing and maintenance technology professionals need to explore and practice a clear direction to ensure that the professional construction targeted to improve the quality of professional construction so that vocational automobile testing and maintenance of technical personnel training can advance with the times. Auto repair professional building direction can be analyzed from the following aspects: First, the development focus. As a place of education to cultivate professional talents, higher vocational colleges should focus on the construction and testing of automobile testing and maintenance so that teaching innovation, daily management and professional development are always effective and in line with the needs of new curriculum reform. Second, Two driven. " As the development direction of the school construction, the specialty construction of higher vocational colleges needs to be vigorously driven and promote the healthy development of professional construction. Teaching reform and construction of teachers are the core of "two leads". Based on this, we should improve the comprehensive qualities of vocational education team in higher vocational education and lay the foundation for effective implementation of professional education. Thirdly, we should plan a scientific and efficient construction idea. The training of talents in higher vocational colleges in the new era needs to keep pace with the times, understand the orientation of students, master the demand of society for professional auto repair professionals, clarify the future development direction of auto repair professionals, make school

education more vitality, and keep pace with the development of the times. Integration of new ideas, to meet the educational development needs, to achieve the exploration of professional construction and practice of effectiveness, for the community to understand management, technical ability, good marketing professional auto repair personnel, vocational training and maintenance of automotive technical professional significance [1].

3. Higher vocational vehicle testing and maintenance technology to explore practical strategies

Adhere to the principle of people-oriented professional building. People-oriented as a principle of social service, education is mainly reflected in the teaching of services to students, so that students can actively participate in the process of classroom teaching, to improve their overall quality and lay a solid foundation for education. As a practitioner of exploration of practical strategies, teachers should establish correct concepts of education, realize the effectiveness of education and embody the value of professional construction. Adhere to the principle of people-oriented professional construction, high-tech automotive testing and maintenance of technical education to students as the main moment to implement the effectiveness of education and enhance the professional skills of automotive auto repair professional strength [2].

Strengthen the teaching style of the wind construction. The main body of teaching style is a teacher, teachers should strive to enhance their overall quality, establish a good teaching and educating people, as a teacher, to create a good atmosphere for improving the effectiveness of professional construction, teaching style construction can be analyzed from the following aspects: First, Treat students equally. Teachers should uphold the principle of "teaching students in accordance with their aptitudes" and treat students equally without discrimination, so as to create a fair, equitable and open environment for quality education so that students can understand the concerns from teachers, improve students' classroom participation and improve their learning efficiency. Second, implement Scientific and efficient teaching and examination system. Teachers should change the concept of traditional education to assess the backwardness of students with scores as the core. During the assessment process, teachers should include hands-on practical ability, classroom performance ability and innovative ability, so as to improve students' comprehensive qualities and achieve the purpose of strengthening the teaching style.

The main body of style of study is students, vocational colleges should focus on demonstrating advanced, promote righteousness, professional ethics, establish self-confidence and other advanced spirits, so that students bathed in good style of study, to achieve the effectiveness of professional construction. In order to make the study style more scientific and efficient, the school can organize students to carry out thematic lectures, select topics that are in keeping with the students' growth needs and are full of positive energy, encourage students to participate in the lectures, deeply understand the style of study, and improve the students' comprehensiveness under the correct guidance. The purpose of quality.

Improve professional building "artisan spirit." With the development of the times, "artisan spirit" refers to the collective name of technicians with a spirit of study, which is already one of the main contents of assessing the overall quality of students. Higher vocational automobile testing and maintenance technology has some abstraction of learning, learning content dull, showing off with the students in real life, so that students can not fully integrate into the professional education process, affecting the quality of professional construction. Based on this, teachers should stimulate students' interest in learning through education, cultivate students' comprehensive qualities of hard work, discovery, innovation and perseverance so that students can keep closer to the "artisan spirit" through interest-oriented teaching, "To lead students to become a leader in the automotive industry, to improve the overall quality of automotive professionals in vocational colleges to achieve the quality of professional construction to achieve positive [3].

Improve the quality of professional construction through rich teaching mode. The practice of professional construction is to make up for the shortcomings of the traditional teaching mode, the lack of efficient teaching mode is the most prominent teaching flaw in today's automotive maintenance major. Based on this, vocational automobile inspection and maintenance technology

professional construction, should be combined with the needs of the development of the times, into the innovative case of education, and constantly deepen the implementation of the teaching reform of specialized courses. Based on the typical tasks of the national first-class vehicle maintenance enterprises, the quality of professional education is improved and the significance of professional construction is realized through the teaching modes of hierarchy, sub-fields and stages. Subject to the objective influence of social development on the demand of professional automobile maintenance personnel, teachers should adhere to the principle of linking theory with practice, and take students as the main body of education to highlight the characteristics of "dual alternation" in curriculum education.

Curriculum reform should jump off the confinement of book knowledge, realize the lagging characteristics of book knowledge, enhance teachers' education awareness with the times, fully mobilize teaching resources, enrich teaching content, make the teaching content with the times, and guide the implementation of post actual needs Teaching content, improve the quality of professional education. For example, teachers should organically integrate the advanced conservation technologies in today's society with those in the book knowledge that have been eliminated by the contemporary society so that students' learning content will always be in sync with social development. In addition, to achieve the purpose of improving the overall quality of students. While educating students' professional skills, teachers should be guided by the concept of sustainable development, to teach students to establish a scientific employment qualifications, which can effectively implement the professional skills, in accordance with the needs of social development to improve the technical safety, stability, environmental protection, education integration Quality has been effectively improved.

By improving the overall quality of students to enhance the quality of professional and technical construction. In order to change courses, teachers should improve their comprehensive qualities while improving their technical abilities so that their core literacy can be upgraded in line with the demand for qualified personnel in the new era. In order to make higher vocational automobile inspection and maintenance technology professional construction more scientific, to achieve the purpose of cultivating students' overall quality through education innovation, vocational teachers can carry out professional construction work from the following aspects: First, the theory should pay attention to students Independent thinking skills, hands-on ability to analyze and solve problems and other comprehensive quality. As a teaching content of theory-linked practice, the automobile maintenance specialty in higher vocational colleges needs teachers to create classroom teaching flexibly. The main body of professional knowledge exploration and practice should be set as students so that students can gradually get rid of their dependence on teachers and develop independent thinking Independent study habits, to achieve the purpose of improving the overall quality of students. For example, teachers may start the "micro-class" teaching method while teaching "Maintenance and Maintenance Technology of Vehicles" to enable students to carry out autonomous learning efficiently according to their self-study and comprehension skills in accordance with the pre-class planning and design of students' into an independent thinking habits. Micro-class is based on the Internet technology innovation and development of the teaching model, you can break the shackles of the classroom students can effectively improve student learning efficiency, develop students self-exploration spirit; the second is to develop students self-confidence. Higher vocational automobile testing and maintenance technology professionals need students to believe in themselves and the courage to practice, so that the brain's knowledge can be an effective solution to overhaul the problem of "tools." Some students are influenced by their personality, lack of self-confidence in the process of practice, and are afraid to put hands-on practice into practice so that the theoretical knowledge is likened to the dumplings in the teapot. Based on this, vocational teachers should focus on cultivating students' self-confidence, enhance students' courage to practice the ideological awareness, to achieve the purpose of cultivating students' overall quality. For example, teachers in the "car steering and braking system testing diagnosis and repair," the teaching, students can practice in the process, through timely evaluation of strategies to encourage students to actively participate in the diagnosis and repair practices, good performance for students Do not

begrudge praise words, so that students feel the teacher's attention, aware of the bright spots in their learning, to achieve effective teacher-student interaction, to lay the foundation for improving students' self-confidence. Encouragement is a "good medicine" to enhance students' self-confidence and a "bitter medicine" to erode their enthusiasm. Teachers should be flexible in using timely evaluation strategies, specifying directions for students' learning and constantly improving students' professional skills so that students can enhance their professionalism Skills, continue to improve self-confidence, improve professional construction effectiveness [5].

To improve the talent cultivation strategy to achieve the effectiveness of professional construction. As an important teaching place for delivering professional talents to the society, vocational colleges need to combine the needs of society, improve the effectiveness of professional construction, and effectively enhance the employment rate of technical personnel in automobile testing and maintenance in higher vocational colleges so as to achieve the purpose of improving the comprehensive competitiveness of schools. Higher vocational colleges through the investigation of market demand for automotive jobs in the market economy can be divided into the following categories: First, professional and technical personnel. Vehicle inspection and maintenance needs of technical personnel combined with the actual situation, the use of maintenance skills to solve practical problems, paint technicians, sheet metal mechanics, mechanical and electrical workers and other technical personnel, is today's vocational automobile repair professional building foundation; Second, management personnel. Automotive Testing and Maintenance as a service work, we need to deal with customers, managers understand the needs of customers, feedback to maintenance technicians, to lay the foundation for the implementation of efficient overhaul, technical manager, service director, service manager, claimors, service consultants, etc. All belong to the management personnel, which is the development direction of the automobile inspection and maintenance technology specialty in higher vocational colleges. At the same time, based on this, we can improve the effectiveness of professional construction by improving the personnel cultivation strategy.

In order to make the construction of auto repair major in higher vocational colleges more scientific, teachers should uphold the spirit of keeping pace with the times, keep the practical content of strategy of talent cultivation under the direction of market orientation, maintain keen observation power, Talent demand changes, research standards for career development, as a basis for sound education tasks, talent cultivation strategies can be implemented through the following levels: First, to enhance the ability of student car repair jobs. The professional building for the primary, intermediate, senior and technician-level ability unit, step by step through education to improve students 'ability to work; the second is to enhance students' practical ability. In the elementary and mid-level ability education units, teachers can implement the teaching objectives through the construction of vehicle maintenance practice courses in the form of theory-linked practice so as to achieve the purpose of improving the students' interdisciplinary ability. In the advanced ability units and technical ability units, teachers can pass Locomotive maintenance and diagnosis courses to improve students 'ability to solve practical problems alone, and lay the foundation for enhancing their overall quality. Thirdly, to enhance students' employability. There is a certain gap between the work practice and the book knowledge. Higher vocational automobile testing and maintenance specialty, as a place of education to train technical personnel, can not talk about the teaching content only to stay at the level of theoretical knowledge. It should pass the auto test and maintenance job internship, Internships, improve students' practical ability to practice, constantly adjust their own employment psychology through practice, make up for learning shortcomings, to lay a solid foundation for the improvement of employability, the reason why these three levels have the professional construction of practical value, the core factor is that students as a professional construction The main body builds a bridge of connection between students and society through professional development so as to improve students' adaptability to posts and professional employment.

4. Conclusion

In summary, vocational automobile inspection and maintenance technology professionals should

adapt to the development of the times, improve the quality of education through professional construction, in line with today's new demands for auto repair professionals. To this end, vocational teachers should improve the strategy of personnel training, and actively change the concept of education, and constantly enrich the teaching mode, improve the talent, "Craftsmanship" and other comprehensive literacy, combined with strengthening the teaching style of the wind so that professional construction more scientific, in line with auto repair Talent training needs.

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Based on the driving behavior of the car active safety and anti-theft early warning system development, Harbin City Bureau of horizontal issues, has ended, municipal. (Code: 2013RFQXJ125)

References

- [1] Huang Wei. High Vocational Vehicle Inspection and Maintenance Technical specialty compact school-enterprise cooperation training base construction [J]. China Education Technology and Equipment, 2014 (23): 154-155.
- [2] Mao Chuanyun. On the construction of automotive detection and repair technology professional thinking [J]. Contemporary Vocational Education, 2014 (6): 13-14,17.
- [3] Wang Haifeng, Tian Xueping, Zhang Shuang and so on.
Vocational and Technical Education]. Technology and Market, 2014 (6): 395-395.
- [4] Sun Liting. Teaching reform based on systematic systematization of automobile inspection and maintenance technology [J]. Time Automotive, 2016 (12): 35-36.
- [5] Li Haijuan, Tao Lei. Journal of Liaoning Institute of Science and Technology, 2017,19 (1): 36-37,77. Construction of "Three-section Butt-type" Practical Teaching System for Automobile Inspection and Maintenance Technology Major [J]