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Research on Ability and Quality Cultivation of Students Majoring in Traffic Engineering Under the Background of Integration of Industry and Education

Jianrong Cai, Zhaoming Zhou, Jinfan Zhang, Jie Yu, Lei Zhang, Qiong Long

School of Civil Engineering, Hunan City University, Yiyang, 413000, China

ABSTRACT: The purpose of the integration of industry and education is to cultivate high-quality technical talents and provide strong support for the country to achieve economic progress. In the development of universities, the concept of integrating industry and education is integrated, so that enterprises and universities jointly undertake the work of talent training. With the background of the integration of industry and education, this paper analyzes its role in the ability training of traffic engineering students, and considers how to realize the ability and quality training, and puts forward the corresponding training strategies for reference.

KEYWORDS: Integration of Production and Education; Traffic Engineering; Ability and Quality Training

I. INTRODUCTION

The decision of the State Council on Accelerating the Development of Modern Vocational Education issued by The State Council of China clearly points out that "integration of industry and education and running schools with characteristics" should be the main principle of vocational education at present, and universities should actively carry out "integration of industry and education". In terms of connotation, the purpose of "integration of industry and education" is to cultivate high-quality talents with all-round development, and it pays more attention to the cultivation mode of school-enterprise cooperation. At present, the integration of industry and education in most universities is still stuck on the surface, without a more in-depth embodiment. How to do a good job in the integration of industry and education, and to find new gathering points are the problems that need to be considered in the process of talent training. universities should actively carry out reform and innovation, reorganize and position the goal of talent training, do a good job in talent reserve, and train and transport more talents for the country.

Although it has been integrating industry and education in universities for a long time, and also accumulated some experience, universities and enterprises also have a profound understanding of the integration of industry and education, some related practical activities have also been carried out in many. But overall, still stay on the surface, it is mainly conducted in terms of project cooperation and off-campus practical training, gap in the actual operation of different universities in China. In general, the integration of industry and education has not yet formed a comprehensive and systematic policy mechanism, unable to conduct a mature management. More of the superficial, no substantial work has been carried out. In addition, due to the impact of the domestic economic environment in recent years, some companies have also shown less support for vocational education^[1].

The goal of the enterprise is how to maximize the benefits, while the goal of the school is to cultivate more and better talents and strengthen the development of the school. The purpose of the two sides is different. Because of this, the school-enterprise cooperation has become superficial. From the current situation of school-enterprise cooperation, most of the school-enterprise cooperation is mainly in the form of selling equipment and employing, and there is no good communication between enterprises and universities, and it cannot achieve deep integration. From the perspective of policy, there are differences between the management part of university and enterprises and the foundation. The form of university-enterprise cooperation brings low benefits to enterprises, and the subjective initiative of enterprises to participate in the talent training activities of universities is gradually becoming smaller^[2].

II. RESEARCH ON THE TRAINING MODE OF THE ABILITY AND QUALITY OF STUDENTS MAJORING IN TRAFFIC ENGINEERING UNDER THE BACKGROUND OF THE INTEGRATION OF INDUSTRY AND EDUCATION

2.1 Establish the practice base and strengthen the school-enterprise cooperation

In order to realize the training plan of students' ability and quality majoring in traffic engineering, it is necessary to strengthen the cooperation between schools and enterprises, schools should strengthen the connection with enterprises, and enterprises must participate in the training process of talents, so that the integration of industry and education can be effectively implemented. We should fully understand the goal of talent training in the transportation industry, and jointly develop new cooperation ways with enterprises. The training mode adopts the "3 + 1" learning mode, which is 4 years, in which 3 years to learn professional knowledge and skills in school, and 1 year to conduct engineering practice in school and outside. Students need to leave the school and go to the enterprise, which will develop the students in the enterprise stage, and complete the remaining studies and graduation design in the enterprise internship stage. The school and enterprises carry out in-depth exchanges. According to the specific demand for talents in the industry, the school and enterprises jointly formulate corresponding talent training plans, so that the direction of talent training is in line with the demand of the industry for talent types, and the content of relevant skills training is combined with the actual needs of positions. This training mode completely overturned the previous classroom as the main teaching form, the real combination of theoretical knowledge and practical production, and the enterprise culture into the classroom, the school education, from the classroom to the enterprise line, makes the school talent training and formed completely docking between the market demand^[3].

2.2 Realize diversified teaching modes

In order to realize diversified teaching under the background of the integration of industry and education, it is necessary to form a good connection between universities, the government and enterprises, and play their respective roles. Universities are the places for students to learn professional knowledge and skills, while enterprises are the places for talents to practice. The role of the government in the period is to strengthen the connection between universities and enterprises, so that they can reach a good contractual relationship. The purpose of innovating teaching mode and realizing diversified teaching is to cultivate the ability and quality of students majoring in traffic engineering, and cultivate them into applied talents. At the same time, it combines the integration of industry and education to improve the quality of students' training. As cultivating applied talents, universities need to focus on the construction of the following three content levels. First, in terms of curriculum setting, universities should fully combine the characteristics of the traffic engineering major, and be based on the important industries of the major, so that the setting of professional courses should be combined with the needs of the industry to meet the development needs of the industry. Secondly, universities should constantly innovate the concept of running schools, strengthen the cooperation with enterprises and the government in practice, put the curriculum reform into practice, and constantly improve the teaching content. Third, to improve the ability of traffic engineering students in this industry. At the same time, it is necessary to strengthen the configuration of hardware facilities of students in school training, improve their practical ability, so that they can quickly integrate into the enterprise after employment and create benefits for the enterprise^[4].

2.3 Establish innovative thinking mode and cultivate the ability and quality of students majoring in traffic engineering

The core content of the integration of industry and education is to cultivate students' comprehensive ability by strengthening school-enterprise cooperation, and its core content runs through the whole talent training goal of students majoring in traffic engineering. In the past, the practice teaching content of traffic engineering major is relatively independent and the connection is not enough for each other, which is a very obvious disadvantage. Now, we should reform this old practice teaching mode, strengthen the connection between the practice teaching content, and form a multi-stage step by step training mode. In the specific operation, we must pay attention to the mutual integration of theory and practice. Although skill training is important, quality education is also an important link that cannot be ignored. Master the relationship between practice and experiment, pay attention to the combination of class and inside and outside school, and form a training system in various ways. According to the different industry types of different majors, we should strengthen the industry-oriented training mode, and make full use of the project-based teaching mode to carry out practical teaching work in line with the requirements of the integration of industry and education in talent training.

III. CONCLUSION

To sum up, under the background of industry-education integration, it is very important to deepen school-enterprise cooperation in the ability and quality training of students majoring in traffic engineering. In the process of talent training, the mastery of basic theoretical knowledge and skills is certainly important, but practical teaching is also an indispensable and important link. China is vigorously promoting innovative development, but at present, there are still many problems in the practice of universities, such as the outdated practice teaching system, the lack of special practical teaching platform, the emphasis on theory over practice, which have caused certain constraints on the ability and quality of students majoring in traffic engineering. Education reform is urgent, therefore, universities should establish practice base, strengthen university-enterprise cooperation, realize diversified teaching mode, component conforms to the requirements of "fusion" talent training and missing education system, build high quality teachers, establish innovative way of thinking, promote the professional ability, innovation ability and practice ability, for the national training and conveying a large number of outstanding traffic engineering professionals, for national development.

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