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The Implementation in Professional Practice of the Full-time Professional Master based on Graduate Workstation

Ruixian Li[1], Zonghe Guo[1]

School of Transportation and Vehicle Engineering, Shandong University of Technology, Shandong, Zibo, Zhangdian, 255049, China

†Email: lrx@sdut.edu.cn; 13070606855@163.com

Abstract

The professional practice is an important scientific research and practice compulsory part for full-time professional master. Sufficient and high-quality professional practice is a significant guarantee of quality of professional degree education. The graduate workstation based on enterprises has been explored and the professional and practical ability of postgraduate with major degree has been promoted.

Keywords: Postgraduate with Major Degree; Professional Practice; Graduate Workstation

1 INTRODUCTION

In order to adapt to the society demands for high level applied professionals, China has begun to recruit more full-time postgraduate with major degree targeting undergraduates from 2009. According to the national policy, these students should have a professional practice of 6 to 12 months, which is a significantly different link from the academic postgraduate training. The main purpose of professional practice is to cultivate the professional ability of full-time professional master[1].

2 THE CULTIVATION OF PRACTICE AND INNOVATION ABILITY IN VOCATIONAL BACKGROUND IS THE CORE OF PROFESSIONAL DEGREE EDUCATION

The education of full-time professional master degree has three obvious characteristics. First, the training objective has a significant vocational nature. Second, the training process has a significant practicality. Third, the training content has a significant domain [2]. The first feature is to train high-level professionals with special needs for specific occupational areas of society.

The practice of graduate students includes practical teaching activities in the classroom, campus and practice base as well as solving specific problems through a series of activities and teamwork. Full-time professional degree graduate students could analyze and solve practical problems by learning theory knowledge discovery in the process of practice. Students strengthen their own theoretical knowledge and continue to summarize experience and lessons in the continuous denial and continuous transformation of the reality of the existence. In the process of this continuous development of practical activities. Their own theoretical system would be further built and improved, which could guide the reality.

Social progress and national prosperity are inseparable from innovation, which is the development requirement of current social economy and technology. Education is not only the important base of knowledge innovation, spread and application but also important cradle that develops the creative spirit and talent. Education has its particular value no matter what training high diathesis labors and professional, or improve the capability and knowledge to build up minority coherence power[3].In the education of full-time specialized master process, it is the purpose of the education and teaching reform to set up an innovative education environment for the profession from the very

beginning.

3 Take The Graduate Workstation As The Platform, Cultivate The Specialized Master Professional Practice Professional Ability

Graduate workstation is the in-depth cooperation platform between colleges and enterprise, which is a research institution established by enterprise and an important platform that implement the cooperation of between universities and scale enterprises or high-tech enterprise. Specialized master can be guided by the university graduate student mentor and enterprise engineering experts. The establishment of enterprise graduate workstation is of practical significance. On the one hand, graduate students can condense enterprise engineering problems into scientific research subjects, helping enterprises to solve technical problems and develop new products. On the other hand, enterprises provide research facilities and practical guidance conditions for graduate students. Besides they also carry out talent cultivation and training, which is an important way to cultivate high-level applied talents in scientific research. Therefore, the establishment of graduate workstation is not only the need for universities to give full play to the advantages of talents , science and technology, making contributions to economic construction, but also the need to promote the training mode of graduate students, strengthen the cooperation between industry, university and research institute, improve independent innovation [4].

4 Research and Implementation of Professional Practical Ability Training for Full-Time Professional Masters

4.1 Do Well Three Combinations

1) School and industry combined. Enterprise practice is the key link for full-time graduate education in professional degree and also a fundamental difference between professional degree and academic degree.Besides, it is an important way for professional degree graduate student to improve the practical ability and technical ability. School-Enterprise coalition as well as the construction of a good off-campus practice base (workstation) for full-time professional degree graduate students is an important guarantee for cultivating the practical ability and innovative consciousness of graduate students. In the course of cultivating full-time professional degree graduate students, our university has established 4 graduate workstations (or practice bases) with substantial cooperation with China Automotive Technology and Research Center, Shandong Tangjun Ouling Automobile Manufacturing co. LTD, Shifeng Group and other enterprises and scientific research institutes. Schools, enterprises and colleges all have corresponding investment in the construction of the base including the joint establishment of the teaching steering committee, joint development of the training program, joint management, joint proposal, joint establishment of the defense committee in the postgraduate cultivation.

2) Dissertation and enterprise practice combined. Practice is not only the most important part of postgraduate practice training, but also one of the important characteristics of postgraduate training. Off-campus practice bases (workstations) and enterprise research and development centers are the main practice bases for graduate students which provide long-term and stable professional practice training places for graduate students so as to achieve a win-win situation between enterprises and universities. It is required that the full-time professional master's concentrated practice time in the workstation is more than 6 months. The research content of the graduate thesis must come from the graduate workstation in the field of vehicle engineering or the joint training base or the related subject jointly declared by the school and the enterprise, such as Zibo school-city integration project, industrial technology research institute project, etc.

3) School supervisor and business mentors combined. We could fully mobilize the enthusiasm of corporate mentors, enhance their sense of responsibility in talent training and coordinate the relationship between school mentors and corporate mentors. We can give full play to the different theoretical and practical advantages of school tutors and enterprise tutors and establish a win-win cooperation relationship among enterprises, tutors and graduate students in talent training through joint research, development projects and achievement-sharing. The supervisor of the enterprise shall report the monthly work report of the postgraduate enterprise internship (post, completion range, task, completion status, performance evaluation, work efficiency and department head, etc) to the college once a

month.

4.2 Implement Three Safeguards

1) To ensure the enthusiasm of the tutor team. As the first person in charge of postgraduate training, the tutor plays a crucial role in postgraduate training. The mentor team consists of on-campus mentors and corporate mentors. Corporate mentors appointed by the school and the enterprise are issued with certificates. Clarify the responsibilities, rights and benefits of the mentors. Both on-campus and off-campus mentors should be able to fulfil their respective responsibilities according to the objectives of the talent training program. The academic tasks completed by on-campus mentors should be guided by on-campus mentors while the operations involving technologies, products and practices should be guided by off-campus corporate mentors. In order to ensure the enthusiasm of the tutor team, make clear the material treatment that the enterprise tutor should enjoy in the school and the enterprise, which includes recruiting students the same quantity as the university tutor. At the same time, teachers inside and outside the school are encouraged to strengthen cooperation and exchanges, learn from each other, constantly summarize experience, and jointly improve the level of guidance. At the same time, teachers inside and outside the school are encouraged to strengthen cooperation and exchanges, learn from each other, constantly summarize experience to jointly improve the level of guidance.

2) The leading role of security system construction. In addition to strictly observing the regular system of the postgraduate training process, full-time professional postgraduate students are also required to increase the internship assessment nodes, such as the monthly internship report, the internship summary report and the comprehensive evaluation of internship. It has formulated the reward measures for excellent graduate students' high-level papers and patents, the "five ones" quality improvement plan, the management measures for the participation of enterprise supervisors in the evaluation and thesis defense.

3) Ensure the feedback function of quality control. Pay attention to the feedback information inside and outside the school, take timely measures to better ensure that the vocational field has a solid theoretical foundation and solve the practical ability, innovation ability and comprehensive application ability. Feedback from outside the school is mainly implemented through the establishment of graduate tracking and employer survey system while information feedback in school is mainly through regular and irregular teaching inspection system, teaching supervision system, student teaching information evaluation feedback system and student teaching evaluation system.

5 CONCLUSIONS

Since 2014, our school has reached a consensus on the full-time professional graduate education. At the same time, based on the properties of the professional graduate education, our school grasps the training objectives of professional graduate education and analyses the problems existing in the full-time professional postgraduate education in China, especially the problems existing in our school. What’s more, we insist on combination of school and enterprise, academic dissertations and the actual situation of enterprises, school teachers and mentors, which ensures the implementation of the measures and basically achieves the unity of professionalism, scholarship and innovation in professional degree training. Based on the graduate workstation, the research on the training mode of professional master graduate students plays a great role in promoting the graduate education of our university and the quality of graduate education. In terms of professional practice, our graduate students have also made good achievements: one of them has been awarded the "outstanding achievement in practice of engineering master's internship" by the third national education steering committee for graduate students majoring in engineering; seven outstanding practical achievement awards on Shandong province professional degree graduate student; a provincial excellent practice base and so on. Our school has been widely recognized by the society.

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AUTHORS



[1]**Ruixian Li,** female, born in 1976. Master of Engineering, Associate professor. Main research interests: Post-graduate education, Automotive.

[2]**Zonghe Guo,** male, born in 1961. Doctor of Engineering, Professor. Main research interests: Post-graduate education, Mechanical design and theoryelectronic technology.